

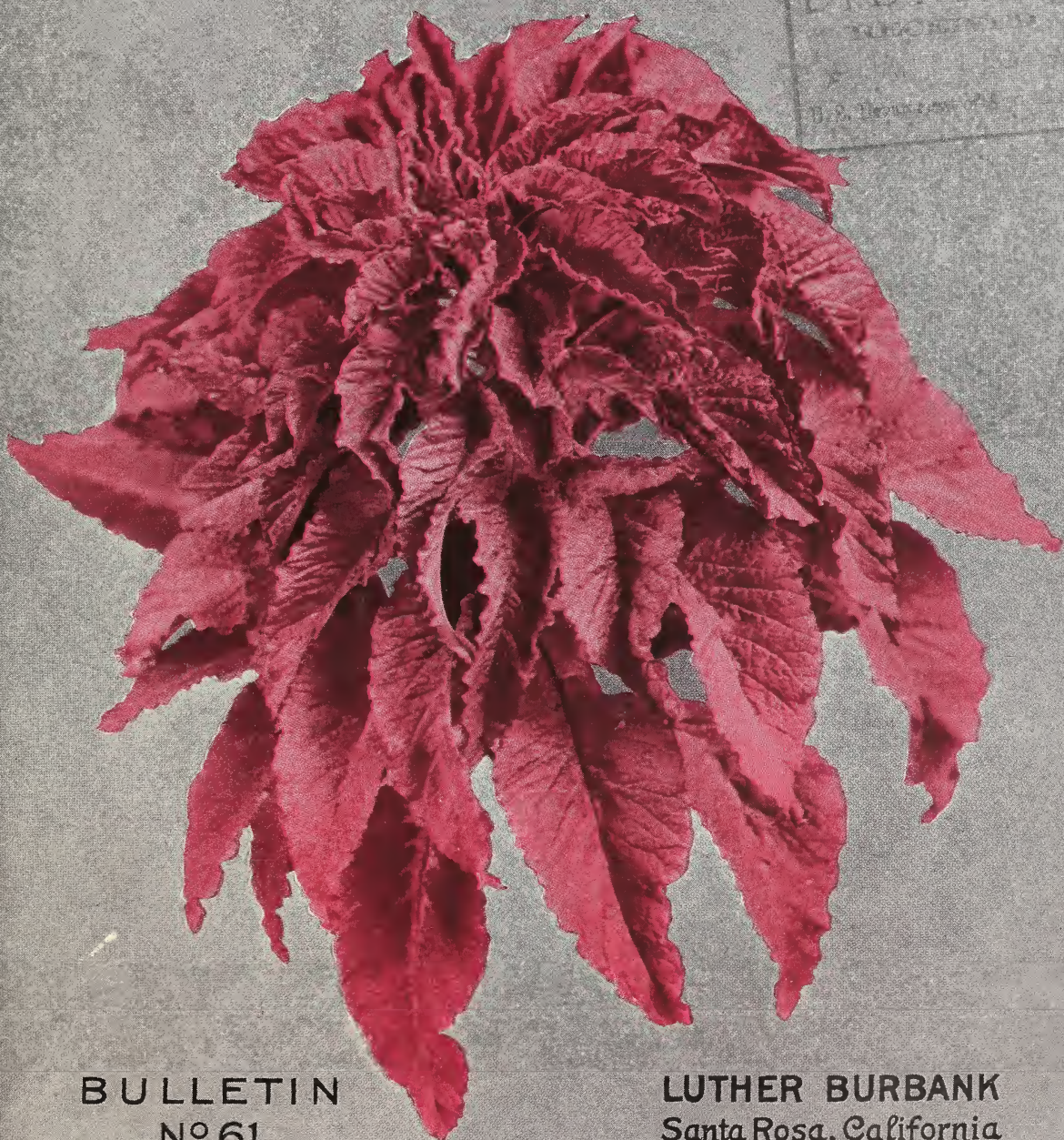
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BURBANK

SEEDS-1922



BULLETIN
No 61

LUTHER BURBANK
Santa Rosa, California
U. S. A.

Just Published

HOW PLANTS ARE TRAINED TO WORK FOR MAN

By LUTHER BURBANK

Introduction by Dr. David Starr Jordan.

Fully describing the methods and discoveries of LUTHER BURBANK in detail up to July, 1921, with four hundred pages of direct color photographs by a new process. Nothing before has ever been written so clearly and fully describing the successful methods employed for the improvement of all plant life. The record of fifty years of actual, vital, important, productive and eminently successful work. Eight volumes. Three thousand three hundred and forty pages. CASH PRICE, \$29.70, DELIVERED ANYWHERE IN CONTINENTAL UNITED STATES. Canada, prepaid, \$34.20. All foreign countries and United States possessions other than the continental United States, \$29.70, and transportation, duty, and shipping brokerage charges at expense of customer.

"Luther Burbank is the greatest breeder of plants the world has ever known. The magnitude of his work excels anything that was ever done before, EVEN BY LARGE FIRMS IN THE COURSE OF GENERATIONS."—DR. HUGO DE VRIES, *University of Amsterdam, Holland.*

"A complete account of the work of Luther Burbank should mark the beginning of a new epoch in agriculture."—ROLLIN D. SALISBURY, *Dean, University of Chicago, Chicago, Ill.*

"Agriculture is the basis of civilization, and to no man does agriculture owe so much as it does to Luther Burbank. A man of the highest order of constructive genius, he has devoted his talents to the betterment of his fellow-man unselfishly."—CURTIS H. ALDRICH, *Executive Office, State of Nebraska.*

"The value of the work which Luther Burbank has done for humanity and the world is beyond estimate. So long as the world is peopled, so long as there is soil to till and flowers to bloom—so long will the work of Burbank continue to live."—R. S. VESSEY, *Governor, Executive Department, State of South Dakota.*

"Thomas A. Edison has harnessed and controlled one of Nature's forces, but Luther Burbank has harnessed even Nature herself and has thereby made men happier."—C. A. GREEN, *Inspector of High Schools for State of Missouri.*

"Luther Burbank's discoveries touch the very foundations of modern civilization and point the way to still greater progress in the near future. The mastery of the resources of Nature becomes more and more an assured accomplishment because of the life and labors of Luther Burbank."—H. J. KIEKHOEFER, *Northwestern College, Naperville, Ill.*

"It may be well doubted whether there is a man in America today who is doing more for the welfare and happiness of mankind than Luther Burbank."—CLARK M. BRINK, *Kansas State Agricultural College, Manhattan, Kansas.*

"The publication and distribution of Luther Burbank's methods will result in contributing more wealth direct to the people's purses than the greatest invention of any age. It will be a blessing to mankind."—R. A. WILDE, *President Luther College, New Orleans, La.*

"Luther Burbank's methods and success point the way to future possibilities that seem boundless in their significance. His record of wonderful achievements will bestow upon the race a legacy of enduring and incalculable value."—CHARLES DAVIDSON, *Dean, University of Maine, Orono, Maine.*

"Mr. Burbank's work is of the very greatest value practically, and has suggested and even solved many problems that were impossible before."—G. STANLEY HALL, *President, Clark University, Worcester, Mass.*

The Training of the Human Plant

By LUTHER BURBANK

*Dedicated to the Twenty Million Public School Children of America
and to the Untold Millions Under Other Skies*

A book, primarily, for every parent and every teacher, but, also,

A book to be read by every thinking man and woman.

It is a prophecy of the finest race the world has ever known.

It is a startling presentation of the possibilities of the ideal in character.

It is a plea for an heredity, environment, and training which shall realize here and now the ideal. Price, by mail, \$1.04.

BURBANK'S 1922 NEW CREATIONS *and* SPECIAL SELECTIONS IN SEEDS



We have this year added a few testimonials as to the value of our productions. TEN THOUSAND PAGES could be thus filled but these few samples will be appreciated

(CULTURAL DIRECTIONS ON PACKETS)

This Bulletin 61 contains messages of vital interest to you. New books to serve you every day, and several absolutely new, economic plants, flowers, grains, grasses, etc., which will become priceless to the whole world, as have so many other fruits, grains and flowers, which have, in former years, had their birth on my grounds. Hundreds of millions of dollars are invested in their production and transportation, and in nearly every city in the world some or many are offered daily.

One hundred and eighty-two million, four hundred thousand pounds are being grown and shipped each season from California alone, even now, and as they are in many cases supplanting other varieties, not only here but in all other countries, their value to the whole world may be in a measure estimated. World travelers find them under cultivation in the most unexpected places—by the temples of Hindustan, near the great Pyramids of Egypt, in the Botanical Gardens of Java, in Western China and the Pacific Islands. Burbank fruits and flowers are household words everywhere. My sixty-five thousand customers are widely distributed. They live in Iceland, Brazil and Australia; Patagonia, Alaska, China, Tasmania and far-away Cathay. Is it necessary to say more to you as to the value of these productions?

Always, whenever possible, obtain seeds direct from the *originator and grower*, who is, of course, more interested in having them absolutely true to the standard type than others can be.

The time and expense involved in the production and introduction of most of these new plants have been great, as those acquainted with the facts are well aware, but it is my aim to place these new varieties in the hands of growers as quickly as possible and at as low prices as are consistent with sound business, in at least partially repaying for their production and introduction. Everything in this Catalogue will be delivered at your door, transportation free, except in a very few cases where noted.

**No Agents Anywhere
All Business Done at Santa Rosa**

A *GOOD NAME* is a treasure for unprincipled dealers to trade on; tons of seeds and thousands of trees and plants of uncertain value are sold over my name throughout America each season. There is no redress.

**Burbank's
Experiment
Farms**

LUTHER BURBANK

Santa Rosa, California, U. S. A.

NEW CREATIONS AND SPECIAL NEW SELECTIONS IN **SEEDS**

These seeds are unique. They are ALL grown on my own farms and under my own care, and are a great surprise to those who have grown the common wholesale-grown seeds so generally offered.

It may be noted that I do not offer a complete collection of seeds. NO ONE CAN who grows all the various seeds which are generally catalogued.

A New Asparagus—"Quality" If any more delicious vegetable than crisp, well-grown asparagus has been invented, tell us about it. And yet people who buy it in the markets seldom, if ever, get the best in its best condition. If you possess a square rod of ground almost anywhere under the sun, you can produce a daily supply of this most healthful vegetable for a family for several months at so little care and expense that you will have good reason to laugh. Thoroughly fertilize the space allotted, spade deeply, add more fertilizer and spade again, making the soil rich, deep, and fine. The bed should be a little raised above the paths when finished. Plant the young plants four inches under the surface, placing them eighteen inches to two feet apart. Do not cut the stalks the first season if you desire best results for the *next fifty years*, during which with very little care, never-failing crops will be produced. Many years ago I produced and introduced a new large, white asparagus, which excelled in flavor all others known. In the passing years since, even this has been greatly improved and I now offer this, *the best asparagus ever grown*. "Quality" produces very large, sweet, tender, light-colored stalks which will be a delight to all who grow or use it. You will find that it is "not like other asparagus."

Packet, 25c; ounce, \$1; pound, \$8.

EAST SAN PEDRO, CAL., June 17, 1920.—Everything bought from you has proved very satisfactory, particularly the asparagus and artichoke plants, which are already nearly twice the size of ordinary kinds. F. S.

MINNEAPOLIS, MINN., Jan. 20, 1921.—We had very good success with Burbank seeds last year, the California grown seeds we received from Santa Rosa outclassing our so-called "Northern grown" products. The "Burbank" tomato and pepper make the two outstanding features of our garden. R. M. E.

Artichokes—The New Hybrids

After many years, at great expense, I now can for the first time offer *seeds* of the Burbank Hybrid Artichokes. They produce heads of enormous size in greatest quantity and of superior quality. These new artichokes often produce on good soil *lavender-blue flowers three to four feet in circumference*. Nothing to equal them has ever been grown. Why grow the ancient kinds?

Packet, 20c; three, 50c; ounce, \$1; pound, \$4.50.

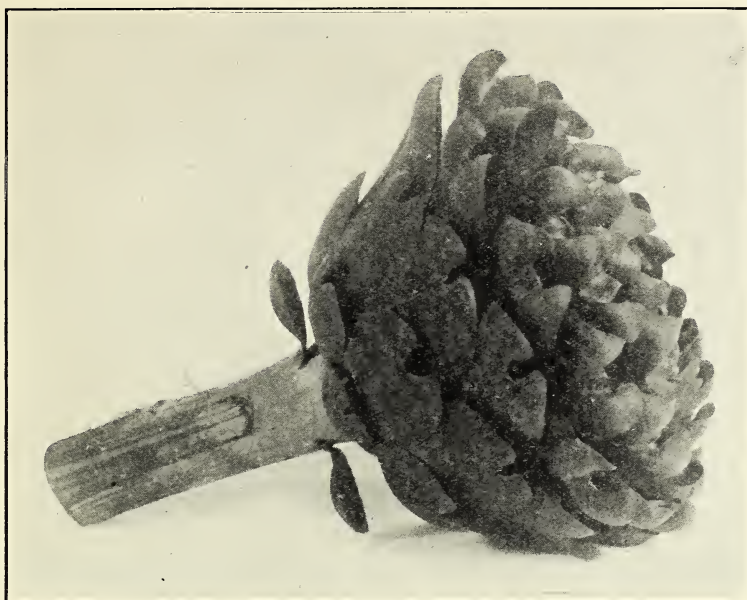
These delicious globe artichokes *can be grown in the cold Northern states* by starting the plants early in pots or boxes in a warm place and transplanting to a good deep rich soil early in the Spring. The *best plants* can then be kept in the cellar for making offsets for the next spring planting for a crop.



SAMPLE BURBANK HYBRID ARTICHOKE.

"Burbank, like Columbus, has shown us the way to new continents, new forms of life, new sources of wealth, and we, following in his footsteps, will profit by and from his genius."—GEO. C. PARDEE, *Ex-Governor of California*.

"My pleasure cannot be written. These productions have taken time, money and Mr. Burbank. Time and money are common stuff, but I have heard of only one Luther Burbank."—GEORGE L. REDLEIN, *care of Tennessee Coal, Iron & R. R. Co., Birmingham, Ala.*



THE NEW MAMMOTH CRIMSON ARTICHOKE.

Artichoke—Mammoth Crimson The buds of this variety are of a beautiful dark crimson color throughout with charming recurved petals like a half opened pond lily but fifty times as large. The quality is also superior as a table vegetable. This seed will not produce the exact variety, which must be increased by division, but some will come true or nearly so from seed. Packet, 25c; ounce, \$1.

"Mr. Burbank's operations have been conducted on so gigantic a scale that, for breadth of view, he has the same advantage over other experimenters that one standing on the summit of a dominating mountain possesses over those who have climbed only to the top of a foothill."—GARRETT P. SERVISS, in *Cosmopolitan Magazine*.

A New Early Sweet Corn—The "Burbank" We have for four seasons distributed a new "Bantam" Sweet Corn after sixteen years of careful selection, which produces twelve-rowed ears instead of the old eight-rowed, small-ear variety. My customers claim that this wholly distinct new variety should have a distinctive name. It will hereafter be called "Burbank." *No other sweet corn in the world produces such uniformly fat, deep, sweet kernels as this on the smallest of cobs.* It is so unusually and uniformly early that it can be grown successfully where other sweet corn can not be produced. *No other sweet corn can compare with the "Burbank" for home use and is greatly prized by the best hotels and packing houses.*

The "Burbank" is a surprise to those who have grown the old eight-rowed Golden Bantam. The yield will almost or quite equal that of the common field corn varieties. Packet, 15c; ounce, 25c; pound \$1, prepaid. By express, not prepaid, five pounds, 40c per pound; 10 pounds, 30c per pound; 100 pounds or more, 20c per pound.

ST. CHARLES, MINN., July 31, 1921.—Two years' trial of your twelve-row sweet corn ("Burbank") has convinced me that it is the best to grow in this section. R. J. B.

LONG ISLAND, NEW YORK.—A third larger ear than the ordinary and consequently a third more valuable. It will sooner or later replace the old variety. J. L. C.

TACOMA, WASH.—Your new Improved Golden Bantam seed corn gave us excellent results this year. N. P. Co.

MINNEAPOLIS, MINN., Feb. 25, 1920.—I was a little dubious about planting corn from California-grown seed, but using seed last year from the foundations from yours, we had the best corn of any "Golden Bantam" we have ever had. Size of the ears was a surprise. R. E.

CINCINNATI, O., Nov. 14, 1920.—Your twelve-row "Golden Bantam" corn is the best variety that I ever tried. PROF. H. M. B.

WARREN, IND., Oct. 21, 1919.—My "Golden Bantam Corn" was fine and I sold the first green corn by a month that was to be found in the country. I am truly indebted to you for your wonderful creations. MRS. C. W.

CINCINNATI, O., Feb. 21, 1920.—Your "Bantam" Corn last year was delicious. A. R. C.



UPPER "GOLDEN BANTAM." LOWER THE "BURBANK."

TACOMA, WASH., Nov. 9, 1919.—Your very kind letter of November 4 leaves us under obligations to you and would thank you to ship us what you can spare of each variety of Bantam Corn, as therein mentioned. This year we had to buy some Bantam Corn from other seedsmen, and it was frightfully poor, and we have never had much luck with anything but your seed. N. P. Co.

WARREN, IND., Feb. 2, 1921.—We enjoyed our new "Golden Bantam" sweet corn very much and had roasting ears earlier than any one else in our community. Mrs. C. W.

Giant Golden Sweet Corn This fine new corn produces large, handsome ears suitable for market gardeners, but the cob is quite large in proportion to the kernels. It is, however, being very rapidly improved, and that which we offer this season will be found uniformly vigorous, productive of large ears, and of unusual value for market gardeners and also for home use or shipping. Packet, 15c; ounce, 25c; pound, \$1.

Early Bantam Sweet Corn This, like several other varieties of yellow sweet corn, has a strong tendency to "glaze" like the field corns, yet it has been a very popular early sweet corn.

Packet, 10c; ounce, 15c; pound, 50c; ten pounds by express, \$1.

A New Creation in Corn—"Sorghum Pop" Our common corn, *Zea mays*, has shown a wonderful adaptability to various soils and climates and also to the various uses for which it is grown, much more so than any other grass or grain. Next to it in variability are the Sorghums, which include the various Kaffir corns, broom corns, and annual sugar canes. These are two very distinct species, one of which is a native of Africa, the other of America, and there is no record of any new variety having been produced by crossing. Nine years ago, after numerous trials, a few kernels were produced on an ear of Stowell's Evergreen Sweet Corn, from pollen of the white "goose neck" Kaffir Corn. These precious kernels were carefully planted one by one the next season and all but two were Stowell's Evergreen to all intents and purposes, but two ripened weeks earlier and were almost true Kaffir corns with compact, crooked, drooping "heads," containing many scattered hard, round kernels, also bearing "goose neck" drooping ears, somewhat resembling popcorn. The next season all were planted and a new corn, in many respects resembling white rice popcorn, but with far smaller kernels, was produced, but the ears were branched or "many fingered" and bore kernels, not only on the outside, but on the inside of the ears, producing an enormous number of kernels to the cluster. As the cobs had to be crushed to obtain the corn, selections were made of short "stubby" ears which bore kernels only on the outside.

SORGHUM POP will produce a full crop of corn on land so poor and sandy that no other corn can produce a single ear; owing, no doubt, to its drought-resisting sorghum parent.

We now offer this most unique corn, and you will find it early, quite uniform, and one of the best *popping corns*. It pops out pure white, sweet, and with a whirlwind of vehemence. This amazing production is of great interest, not only to growers, but also to botanists and biologists.

Packet of 100 seeds, 15c; ounce, 30c; pound, \$1.

[From "Gleanings in Bee Culture," November, 1919.]

"BURBANK'S CREATIONS"—SOME OF HIS LATER ONES.

After I returned from Florida I got hold of Burbank's 1919 catalogue, and I sent for quite a number of things. The Giant white-seeded sunflower named "Manteca" I have described elsewhere. A new kind of corn which he calls "Sorghum Pop" I am very much pleased with. It is the result of crossing a variety of sorghum with Stowell's Evergreen and he found after testing that it produces *popcorn*. The grains are pearly-white and the ears larger in size than ordinary popcorn; and the funny thing about it is that a great part of the ears are twins—you might call them Siamese twins; and besides the twins we have quite a number of triplets. It pops beautifully and I have been greatly enjoying lately putting the popcorn in hot milk, instead of "the shredded wheat biscuits" that I have been using for months past. And, by the way, one of those twin ears of popcorn after it had been popped out would bring quite a little money at five cents a paper bag full. It looks to me that this sorghum popcorn might help largely in reducing the "high cost of living"—that is, if you grow it in your garden and pop it yourself. I am so pleased with the sunflower and the two varieties of corn that I am planning to send a few grains of each to any subscriber to *Gleanings* who will send me an addressed envelope.—*Editor A. I. Root.*

ETNA MILLS, CAL., Feb. 3, 1920.—Your "Sorghum Pop" is something to be proud of for we liked it better than any we have raised here, as we have very short seasons for garden produce.

Mrs. M. E. C.

ETNA MILLS, CAL., Feb. 3, 1920.—The "Sorghum Pop" I ordered of you is really a surprise to me as to how it pops. There is absolutely no hard portion of the kernel left when it is popped. Considering its quality, earliness and productiveness, I think most of the older varieties should be discarded.

MEDINA, OHIO., Oct. 21, 1919.—I congratulate you on your new popcorn. See enclosed photograph. No. 1 is the ordinary popcorn; No. 2 is yours. Many of the grains were so small they would slip through the ordinary corncopper. The popped-out grains are from your production. I enclose also a proof of what I expect to come out in November "Gleanings." The picture won't be ready before December 1. If I hadn't seen with my own eyes those little grains make that great, big, beautiful popcorn, I would be inclined to say it was preposterous or impossible.

A. I. R.

LEWISTON, MAINE, Nov. 8, 1920.—I have been, for some time, intending to write you in regard to the "Sorghum Pop" corn I purchased from you. It is a great surprise to me to learn how readily this corn is responding to selection, and how quickly it appears to have become acclimated. I shall keep on with it and if it proves good in popping qualities I am convinced it will be far ahead of any popcorn we have ever had in this region.

G. A. W.

A New Popcorn—"Pure Gold" The best of all, the most productive of all. Three and four long, beautiful, pure golden, well filled, uniform ears to each stalk. "Pure Gold" produces crops rivaling even the best field varieties in yield. The kernels pop pure white, and larger and sweeter than other kinds.

Packet, 10c; ounce, 20c; pound, 50c; ten pounds by express, 20c per pound.

EMMETT, IDAHO, Feb. 18, 1920.—The "Pure Gold" Popcorn that I got from you can't be beat. It all pops.

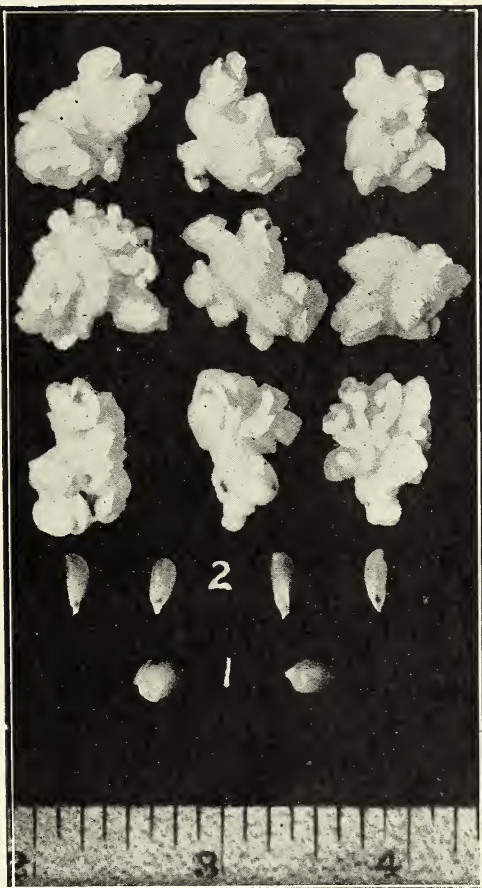
H. C. W.

HEMET, CAL.—Your popcorn "Pure Gold" is by far the best popcorn ever tried in this district. I started with one of your little packets two years ago and now it would be hard to say what acreage is to be planted another year.

C. E. M.

AMBRIDGE, PA., Feb. 24, 1919.—Last year I planted some of your popcorn "Pure Gold" and I was more than pleased with it, and as to the quality, I think it is the finest I ever tasted. My idea is to raise "Pure Gold" popcorn, say 50 acres, to sell to the wholesale popcorn dealers.

S. M. A.



1—COMMON POPCORN.
2—SORGHUM POP—SHOWING GIANT POPPED CORN FROM ITS SMALL KERNELS.

The Earliest Tomato in the World—The "Burbank" By far the *earliest, smoothest, largest, most productive, and best* of all early tomatoes; resists with and other tomato diseases better than most others. The "Burbank" is so much earlier than other tomatoes that from the seed of the tomatoes which ripened here in *June*, a *second*



"BURBANK" TOMATO.

crop has been again and again grown and ripened the same *season*, something probably never before known. This extreme earliness means millions of dollars to American tomato growers, as one-half the tomatoes grown in the United States, even in California, are taken by frost instead of by the grower.

Fruit, *bright crimson*; thick, solid, heavy, smooth, medium to large in size, *superior quality, unusually heavy and continuous bearer throughout the season; good keeper and fair shipper.* The "Burbank" has one other unique and most remarkable quality which will be appreciated by those who like fresh sliced tomatoes for the table. Unlike other tomatoes, *the skin peels freely from the rich, firm flesh.*

Last season American, European and Australian canners, market gardeners and seed growers, having tested its merits the year before, ordered the last ounce of seed so that it could only be offered by the packet, and have now ordered for their 1922 crop. This season I can furnish seed of the *greatly improved 1921 selection* by the pound and hundred pounds.

1921 selection. Packet of 100 seeds, 20c; three for 50c; ten, \$1. Per ounce, \$1; pound, \$10; ten to 100 pounds, \$8 per pound. Larger lots at special rates.

Tomatoes form on the "Burbank" when the plants are very small. It is well to pick off the first cluster of blooms, thus giving the plants a good start for heavy crops. *Plant deep*; set the plants deep in the field or garden for heavy and continuous crop.

I have added a few sample 1921 opinions of growers from Nova Scotia to Texas, from Maine to California, from Alberta to Australia, and from sea level to nearly a mile in altitude, only to fully verify the fact that the "Burbank" Tomato is not only the *earliest tomato in the world, but also the best.*

MANATI, PORTO RICO, June 19, 1921.—The seed of the "Burbank" tomato I ordered this Spring gave me the best tomatoes I ever tasted in Porto Rico. Most tomatoes here get a bitter taste, but yours were very sweet. Mrs. J. F. D.

RED DEER, ALBERTA, CANADA, March 15, 1921.—I enclose herewith order for seeds and remittance to cover. Last year, again, I had wonderful success with your "Burbank" tomato. I have tested all early varieties here and without doubt yours is the earliest and best in this country. Of course your other seeds are better than any other seedsmen sell, and I wish you had more varieties. A. T. S.

ADAMS RUN, S. C., February 2, 1920.—The "Burbank" tomato is the only variety that will grow in our blight-infested soil. Mrs. J. T. T.

TIMARU, N. Z., Jan. 18, 1920.—The "Burbank" tomato seed I obtained last season germinated excellently and is giving satisfaction. It is easily the earliest we have grown. P. G. A.

HORNSBY, N. S. W., AUSTRALIA, July 28, 1921.—I may tell you that I am at present advertising your name all over Australia in connection with your special tomato, the "Burbank." I have raised a fine lot of plants from seed secured last year from your warehouse. Everybody who saw the plants fruiting last season were great admirers of them, and we are expecting big things in the future. Your name is regarded here as a guarantee of quality, and we appreciate the great work you are doing for the whole world. May you live long to enjoy the satisfaction of your success. C. H. D.

THAMESVILLE, ONT., CANADA.—The "Burbank" tomato has beaten any tomato we have ever grown. They are early, firm, not many seeds and a heavy cropper. Our demand for these tomatoes is great. T. G. W.

AUSTIN, TEXAS, Jan. 4, 1921.—"Burbank" tomatoes are the best I have ever raised, after trying at least thirty kinds. M. B. McC.

PARADISE, CAL., Jan. 13, 1921.—I have found your "Burbank" tomato to be the best in quality of eight or ten of the leading varieties I have tested, as well as for earliness. B. O. C.

NUTWOOD, OHIO, Nov. 30, 1921.—I am writing you the results of my first trial of your seeds. The "Burbank" tomato is easily the winner. I was selling tomatoes at 25c per pound four weeks earlier than my neighbors had any for their own use, and they got their seed in before I did. It is more prolific and of the finest quality. C. H. D.

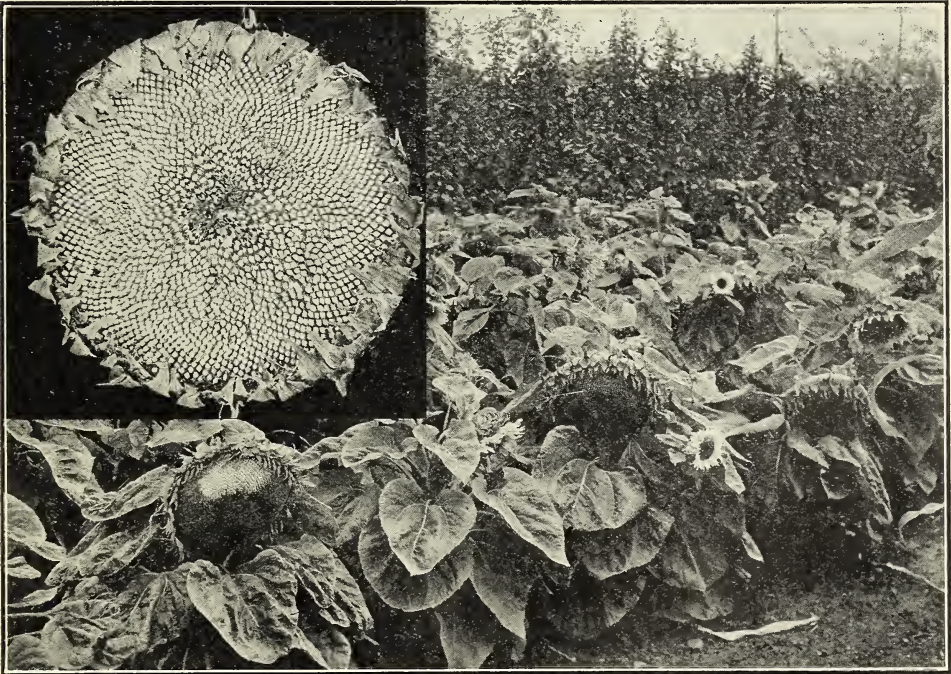
New Giant White Seeded Sunflower—"Manteca" In 1909 sunflower seed was grown in the United States to the amount of 63,677 bushels. Last season there was shipped out of one California town by one buyer, 1275 Tons, for which \$76,000 was paid to the growers. Sunflower seed is used for feed and for oil. All sunflower seed has heretofore been black, brown, or striped. "Manteca" was produced on my place several years ago by crossing the well-known *Black seeded double* California sunflower with the Giant Russian, which has black striped seeds. The result was, after many years of careful selection, "Manteca," which is a greatly improved *PURE WHITE SEEDED* Giant Russian, which produces enormous *single* heads on short stalks, instead of the usual big and little mongrel heads on tall, unsightly stalks so generally grown.

Have only a small quantity of this seed left as "Prolific White," described below, must everywhere supplant ever this remarkable sunflower. Packet, 15c; ounce, 30c.

CHICAGO, ILL., Sept. 9, 1921.—I got some of your sunflower seed two years ago to try on my Michigan land and every seed came up. The seeds I got from you were exceptionally good—every kernel of corn grew. C. E. S., M.D.

YANKTON, S. D., July 29, 1919.—You will remember that we purchased from you last year some of the large sunflowers and we wish to state at this time that we certainly have a wonderful crop from the seed we purchased from you. We are about ready to harvest these, and as we have never done any harvesting of sunflowers, we are writing to find out the best manner of harvesting and threshing the seed. G. S. & N. Co.

SANTA ROSA, Cal., Jan. 4, 1920.—The "Manteca" Sunflower produced a head twenty-two inches in diameter. L. B. W.



SUNFLOWER—"NEW PROLIFIC WHITE." —Photo by Herbert Gleason, Boston.

The New Sunflower—"Prolific White" "Manteca" ("the fat") has proven its value and now I offer a new wonder, "*PROLIFIC WHITE*," the most remarkable and most useful sunflower ever produced; one which will forever supplant the older kinds and make a new record in the world of horticulture. "*Prolific White*," like "Manteca," produces great single heads of purest white seeds and while growing only *three feet in height*, yields even more seed per acre and *as much foliage* closely crowded on the big, short stalks; very inconvenient for the birds, but very convenient in a windy country and exceedingly so for cultivation and harvesting. Packet of fifty plump seeds, 20c; one hundred seeds, 30c; five hundred seeds, \$1; pound, \$3.

Sunflowers for Silage

"Developments of the past three years have brought the humble *Helianthus*, the sunflower, to the agricultural front as a most satisfactory crop for silage purposes," says the California Department of Agriculture.

It may soon become one of the main forage crops of the West, due to its adaptability to a wide range of conditions, such as drought, suitability for irrigation, resistance to frost and its high feeding value. In short, the time is not far distant when it will mean increased wealth to stock growers of California.

From *Pacific Rural Press*, September 10, 1921.—*Valuable Dwarf Sunflower*. A new dwarf sunflower, growing not over three feet tall and bearing practically as many leaves as the giants of our San Joaquin Valley, with less than one-third of the woody, fibrous stalk, might be seen growing in considerable quantities in the garden of Luther Burbank in Sonoma County. These compact, dwarf, little sunflowers bear large-sized heads full of white seed. They can not be whipped around by the wind like the ordinary sunflowers; they are far less attractive to the birds; and the harvest for seed or silage takes only a fraction of the labor required by ordinary varieties.

OAKLAND, CAL., Nov. 23, 1920.—Your seeds, as usual, gave me immense satisfaction, especially the odd colors in your red hybridized sunflowers. I raised "Manteca" Sunflowers that measured almost twenty inches across, not including the flower petals. W. S. P.

ST. LOUIS, MO., July 7, 1919.—We are in the market to buy one to five cars of new crop sunflower seed for September, October shipment. If you will wire us your lowest price upon receipt of this we will be glad to try to trade with you. If you can not offer it, will you please refer us to anyone who will contract to sell the new crop seed? P. L. ZIMMERMAN Co.

The sunflower is almost as valuable as the fabled cocoanut, which produces butterfat, milk, food, fiber, etc., for its tropical owner. The sunflower seed produces an oil unexcelled for culinary purposes, almost as bland and pure as olive oil. It requires the minimum of culture, and thrives under adverse conditions of soil and climate. In China the sunflower seed like pumpkin seeds have medicinal value; in Russia the moujik eats his roasted sunflower seeds as the boys do peanuts. Some day we may have them "salted" as part of the menu, or sold as a confection.—*Weekly California State News Letter*.

The Sunberry The Burbank Sunberry, an absolutely new species of *Solanum* created on my own farms, is an annual berry plant of the easiest culture, thriving even on rather poor soil. The berries are almost exactly like the large, sweet huckleberries of the Eastern states. The plants bear enormous quantities of berries which are highly prized for cooking, canning, etc. Grown and treated same as tomato plants. The Sunberry is especially prized in the cold North and in hot desert countries where other berries do not thrive.

The berries, like some blackberries, should be allowed to ripen two weeks after turning black *if to be eaten raw*, when they become very sweet and delicious, and will then remain in good condition on the plants in dry climates for two months or more. If to be cooked they may be used in a week or so after turning black. A dozen large packing firms could be profitably employed in canning this fruit for two or three months each season. Will thrive in any climate and on any soil. On rich soil plant 3 x 4 feet apart; on poor soil, 2 x 3 feet. The berries may be rapidly gathered on a cloth by threshing the plants with a light stick. The ordinary production per acre is from *twenty-five to forty thousand pounds*. Packet, 10c; ounce, 40c.

NUTWOOD, OHIO, Nov. 30, 1921.—The Sunberry makes delicious pies and is very prolific. C. H. D.

CARPINTERIA, CAL., Feb. 24, 1921.—I had wonderful success with your "Sunberry" seed last year. T. L. McD.

DENVER, COLO., April 28, 1921.—Please send one ounce "Sunberry" seed. We grew these last season and were delighted with them. Are a splendid seller and fine for pies and canning. Surpass the blueberry of the East, we think. E. C. W.

SAN BERNARDINO, CAL., April 15, 1920.—I got the seed from a few plants of "Sunberry" grown in a garden here, and from about 75 plants I picked 200 pounds of berries. Sold the berries to neighbors and some to a bakery here in this city. The bakery used the berries for pies. Only a small quantity of the berries was grown here and the bakery could not get berries enough to supply the demand for "huckleberry" pies. F. L.

ORLAND, CAL., Feb. 20, 1920.—The "Sunberry" bears all summer, and proves to be just the thing for this hot, dry climate. We found them a delicious pie fruit. Mrs. F. J.

MOUNT ANGEL, ORE., Feb. 17, 1920.—I especially want the "Sunberry," as I have tried them and like them so much. Mrs. T. L. A.

ETNA MILLS, CAL., Feb. 3, 1920.—Your "Sunberry" is something wonderful. We used them in preserves and pies, and they are delicious served both ways. Mrs. M. E. C.

LAKEPORT, CAL., Feb. 7, 1920.—I have grown the "Sunberry" for three years, and I think it is a wonder. My children choose it in preference to any fruit we have canned. My vines are four or five feet across and loaded with fruit. They surely deserve a greater popularity. I can not understand why there is not more grown. R. V. G.

WATSONVILLE, CAL., Feb. 10, 1920.—I tried the "Sunberry" two years ago and found it a strong grower, heavy bearer, and about as good as the blueberry and huckleberry as I remember them

at their best fresh picked on my Wisconsin farm. I feel that these should be generally grown in family gardens. C. H. H.

BLOCKSBURG, CAL., Aug. 20, 1919.—We are greatly pleased with the plants grown from your seed, especially your Sunberry. We, and every one who has eaten them in pie and sauce, pronounce them the finest fruit we have ever eaten. Dr. R. C. W.

SAN GABRIEL, CAL., Sept. 18, 1919.—Your little sunberries are a great success—most delicious pie-fruit I ever ate; identical in flavor and consistency with the Eastern Blueberry and Huckleberry pie. Rev. A. D.

CINCINNATI, OHIO, April 21, 1919.—I grew the "Sunberry" two years ago and found them delicious. F. Y. G.

FORT BRAGG, CAL.—The Sunberries did well and were very prolific. We had some pies that were great. S. A. B.

SACRAMENTO, CAL., Feb. 19, 1919.—Regarding the article in your last catalogue on "Sunberries"; it seems almost too good to be true that they require no irrigation. I have a contract with a firm in Sacramento that operates two restaurants, for the entire crop of Sunberries, so if you think irrigation would ensure a more abundant crop would very much appreciate your opinion. Mrs. W. S. H.

New Giant Chives

The common, well-known onion-like plants, are hardy even in Alaska and a small plot will supply a family throughout the year. The tops are used for flavoring soups, in salads, etc. Their delicate onion flavor is prized by those who know them. The Giant Chive, which lately originated on my grounds, is a wonderful improvement on all those ever before grown. It is also a handsome border plant.

Packet, 20c; three, 50c; ounce, \$2.

Imperial Chives Never before offered. This colossal variety originated on my grounds. It stands eighteen inches in height, being about twenty-five times larger than the common chives. Packet, 25c.

Ruby Gem Chives A new large, handsome, red-flowering variety, beautifully adapted for borders. Both these new chives multiply rapidly and are hardy everywhere but do not reproduce exactly from seed. Packet, 25c.



SHORT ROW OF GIANT CHIVES.

A New Hybrid Cucumber—"Iceland" The "Lemon" Cucumber, a native of Central America, is a quite distinct species from the common long green cucumbers so universally grown. It is small and not a good form for slicing, yet the *quality is so superior* that it is grown more and more extensively each season for home use. By crossing this species with a long snow-white cucumber, sent out a few years ago, a new and wholly distinct cucumber has been produced, which surpasses all other cucumbers in crispness and delicacy of flavor and is snow-white, oval, medium size, and most astonishingly productive, often three hundred cucumbers to each vine. In the combination of these good qualities it is unequaled by any other cucumber. You will probably have more fun raising and eating these cucumbers than anything else in the garden. Price per packet, 15c.

SIGNAL MOUNTAIN, TENN.—I have enjoyed the flavor of the "Iceland" cucumber very much. The flavor is more delicate than any other we have ever used. R. C. H.

CLOVIS, CAL., Jan. 27, 1919.—Found the cucumbers most delicious. Mrs. F. A. O.

SARDIS, B. C., CANADA, Feb. 4, 1919.—Your "Iceland" cucumber had literally hundreds of cucumbers to a vine and were the most delicious we ever tasted. I never in my life saw such vines—the flowers were one brilliant mass. Mrs. R. E. C. H.

A New Hybrid Cucumber—"Capital" The new "Capital" Cucumber is exactly like "Iceland" in every respect except *color*, which is bright green. Packet, 15c.

EAST EDINGTON, MAINE.—I never saw such delectable cucumbers as I raised from your seeds. F. F. M.

WESTFIELD, MASS., Jan. 5, 1921.—We tried your "Pure Gold" Popcorn last year and the "Capital" cucumber. Both were all that was claimed for them in quality and yield. I divided the seeds with a few friends, and they, too, were delighted. Mrs. S. B. K.

Improved "Quinoa" (*Chenopodium quinoa*)

A Delicious New but Ancient Breakfast Food

This annual, easily grown plant bears quite heavily a highly nutritious, extremely valuable, greatly prized grain food—a small white seed produced in profusion on plants about four feet in height. The fact that it contains about four times as much gluten as the best wheat (40 per cent or more) proves chemically its very great nutritive value. The outer husk also contains about 17 per cent vegetable potash. Belonging, as "Quinoa" does, to the beet-spinach family, the young, tender plants make excellent greens.

By sowing the seeds early around the edges of fields and gardens, or in fields like corn, a good supply may be raised anywhere in almost any climate. The seed, when dry, is prepared directly for food simply by pounding a few minutes in a sack to remove the outer husk, then it is rinsed and cooked two hours or more. It is also ground and used for bread and cakes. Everybody likes it. Everybody thrives on it.

Burbank Selection White Quinoa Seed, per packet, 15c; three, 40c; six, 60c; ounce \$1.

LOVETT, GA., May 10, 1918.—I planted a little package of your improved "Quinoa" seed and am surprised at the heavy crop produced. Believe it will more than double the crops of any of the cereals. The plants are simply laden with seed heads which are now rapidly ripening. I feel that the crop from the little package will give me at least half a bushel of clean seed. An acre at this rate would run from seventy to eighty bushels of clean seed. J. P. M.

"One of the new foods is a species of pigweed, which by cultivation has become a valuable seed plant, much prized by the Incas as a food staple. The seed of this plant is said to be fully equal to oatmeal in nutriment, in which case it should be a most valuable acquisition."—"Good Health" Magazine.

A New Flax—The "Burbank" The United States of America produces an average of thirty-three million dollars' worth of flax seed annually. Its uses are too well known and too numerous to mention. Some ten years ago a company of French artists urgently requested me to produce a flax which would make a natural *limpid white oil*, as the clear colors of their pictures were blurred and deadened by the oils which they were obliged to use. From a small sample of seeds from some light brown East Indian flax which they had obtained, and which reverted to the original dark for several years, I have now to offer the most remarkable flax ever produced. *The seeds of the "Burbank" are of nearly double the size of any other, are of a beautiful limpid white, and yield twelve per cent more oil per pound of seed. The oil is more readily extracted and with less waste.* The plants are fully as productive as the ordinary flax. The "Burbank" Flax will be welcomed not only by artists, but by painters in general, manufacturers of oil cloths and linoleums, by druggists, and for home use by everybody. An extremely hardy, vigorous variety.

Per packet, 25c.

POULSBORO, WASH., Oct. 20, 1921.—We have had the greatest satisfaction from your seeds of all we used this year. They have been little short of marvelous. Mrs. L. C. P.

Hybridized Rhubarb Seed For many years extensive experiments have been carried on here for the improvement of the Rhubarb. From crossings of the Giant Perpetual with the best European and American varieties, some remarkable giant, early and fine-flavored varieties are being produced. This hybrid Rhubarb seed is now first offered and new varieties suitable for all climates will be produced. Some of these seeds are producing new crimson, berry-flavored varieties far superior to any of the well-known old kinds. Packet, 25c.

Potato Seed One of the most interesting of all garden pursuits is the growing of potato seedlings, especially as a new prize potato may be produced by any one, whether skilled or not. The seed which I offer is from the very best English, Scotch, Norwegian, Swedish, German, North and South American varieties. Maine, California, New Mexico, Washington, and Oregon seed are included in this remarkably varied and superior lot of seed. Seedlings of all forms, sizes, qualities, and colors will be obtained. Directions for growing are printed on each packet of seed.

Packet, 15c; two, 25c; ten, \$1.

The Burbank Thornless Blackberry Every seed produces a plant which under all circumstances is always as soft and smooth as silk. Most of them from this highly improved seed produce large, delicious, firm, sweet fruit in abundance. Packet, 25c.

Everbearing Strawberry Seed My new everbearing strawberries are unique. Some of these I have worked upon for improvement for twenty years or more, and I offer this season seeds of the *very best* of these, such as I plant myself for obtaining new varieties. Best new everbearing varieties, mixed; per packet, 25c; "Evergreen White," per packet, 25c.

Passiflora Edulis The Australian Fruiting Passion Vine bears delicious, hard-shelled, purple fruits of the size of hens' eggs. Greatly prized in Australia and England. Hardy only in mild climates. Packet, 25c.

New Hybridized Sunflowers Seeds of all sizes and colors; giant and dwarf flowers, single and double. Clear red, yellow, orange, primrose and variegated flowers. Most unique and remarkably interesting varieties in great profusion are produced from this seed.

Packet, 15c; ounce, 50c.

BOSTON, MASS., Nov. 15, 1921.—I want to say that I had some very satisfactory results from the seeds which you sent to me, particularly the tomatoes and the sunflowers. Those wonderful sunflowers were the marvel in coloring of all who saw them. H. P.

NEW ORLEANS, LA., Dec. 14, 1918.—The inclosed kodaks show an unusually large sunflower (for this locality) grown from seed purchased from you last Spring. The tree was about twelve feet or more. The center part of the flower was from thirteen to fourteen inches in diameter, and with the petals extended made the width between point of petals about nineteen inches. The color was a beautiful orange-yellow with the browner center. A. R. C., M.D.

VALLEJO, CALIF., Dec. 5, 1921.—I wish to state that I have wonderful success with your seeds. L. C.

A New Pepper—The "Burbank" From Mexico some ten years ago, I received from my collector a pepper of great size and fine flavor. From this I have developed the *largest pepper ever grown*; fruits nine inches long and four inches through with a thick sweet meat have been grown, and when placed upon exhibition people could not believe they were peppers. At the great Panama-Pacific Exposition or at the recent Land Show no peppers one-half as large were exhibited. The plants are early, very productive, and as easily grown as any other. Packet, 20c; ounce, \$1.

VINELAND, N. J., Oct. 28, 1918.—Your "Burbank" Peppers are great in size, shape and bountiful in production. M. R.

OTTUMWA, IOWA, Jan. 13, 1919.—Your sweet peppers were very productive and I think that four plants must have produced twelve dozen peppers. A. T. G.

PENDLETON, ORE.—The peppers are bigger than pint fruit jars and still dark green and growing larger. These dahlias and peppers are absolutely shock producing, astonishing productions. They make a man wonder what in the name of Heaven we are coming to anyhow. H. S. G., M.D.

UKIAH, CAL., Feb. 3, 1919.—Your new pepper was simply grand. E. V. J.

AYER, MASS., Jan. 12, 1920.—Raised some of your peppers two years ago and had great success. Some weighed a pound. Mrs. C. S. D.

SITIO GRANDE, CUBA, Nov. 13, 1920.—Your peppers are wonderful. I never saw anything like their earliness and size. J. C. S.

REDDING, CAL., March 8, 1920.—I must tell you about the "Burbank" Pepper which was raised from your seed. We had peppers which weighed one and one-half pounds. Mrs. W. H. W.

PUEBLO, COLO., Jan. 24, 1920.—I tried your "Burbank" tomato and your "Burbank" pepper last year and found them all you claimed for them. W. D.

The New "Tomato" Pepper This is not a cross of the tomato and pepper as is often thought by those who see them, but a true, mild, smooth, glossy, bright crimson pepper of superior quality and surpassing beauty of form and color. Absolutely without wrinkles; productive, and as useful as it is beautiful. Packet, 20c; ounce, 50c.

Pepper—Golden Horn of Plenty An *extremely early*, very handsome and *unusually productive* lemon-yellow pepper. Packet, 10c; three, 25c.

New Rainbow Chard or Asparagus Beet By crossing the improved Swiss Chard with the sweet table beets, a more vigorous strain has been produced with enormous leaves and stalks of white, pink, green, scarlet, crimson, orange, and yellow. Both the broad, succulent stalks and leaves exhibit a mingling of wonderful iridescent rainbow shades. The leaves are deeply crimped and pitted like the Savoy cabbage. Nothing in the garden can be so easily raised, and no other vegetable produces such a vast and perpetual supply of delicious and healthful succulent food, as delicious as the best garden spinach. Packet, 15c; ounce, 25c; pound, \$3.

SKEENA RIVER, B. C., CANADA, March 24, 1921.—Many thanks for again sending us your catalog. Your seeds are wonderful. The Rainbow Chard exceeded every expectation and was the wonder of every one who saw it. L. & F.

OAKLAND, CALIF., May 7, 1921.—Please send me ounce of your "Rainbow" Chard. We found it delicious as "greens" and the chickens liked it as well as we did. Mrs. G. W. D.

LA GRANDE, OREGON, April 9, 1921.—Please send me \$1.00 worth of the new Rainbow Chard. I have never seen its equal before. Mrs. G. S. B.

MOAB, WASH., Feb. 11, 1920.—This is my third year raising your "Rainbow" Chard, for my family can not find anything to compare with it in chards. CAPT. F. H. M.

CARLIN BAY, IDAHO, Aug. 18, 1919.—The "Rainbow" Chard is surely wonderful. We have been using it all summer for greens. I never tasted anything so good and it has done so well it is a pleasure to watch it grow. E. D.

SAN FRANCISCO, CAL.—From your Rainbow Chard seed we have been using the greens for my chickens. It has large, tender leaves, which I have been taking from these plants all summer, and they have not yet started to send up seed stalks, which I find the other chard does. If you have seeds of other plants which will produce a large lot of greens for chickens and will not seed quickly, let me know. W. R.

OTTUMWA, IOWA, Jan. 13, 1919.—I want to commend your Swiss Chard Beet for greens. We think it is equal to spinach and it is the only greens that I can state I really like. A. T. G.

MINNEAPOLIS, MINN., Feb. 16, 1919.—We had lost our taste for Swiss Chard from using the ordinary green-leaved kind, but the "Rainbow" variety brought it back two-fold. It did especially well, canned in the Cold Pack method. R. M. E.

Lettuce, Big Boston A very large, hard-heading lettuce grown more extensively than any other. Suited to all climates and in flavor unsurpassed. An all-the-year-round variety for all purposes everywhere. Packet, 15c; ounce, 25c.

New Tomato—"Santa Rosa" Enormous thick, smooth, deep-rose-colored fruits of superior quality. One of the most productive general crop tomatoes and especially valuable for canners' and home use. Packet, 20c; ounce, \$1.

White Sugar Beet—"Wanzleben" The beet so extensively planted for the sugar factories. It is also tender and deliciously sweet for table use when young. Packet, 10c; ounce, 15c; pound, \$1.50.

Lemon Cucumber Enormously productive, medium sized, oval cucumber of superior quality. Packet, 10c.

Pimiento Pepper A short, compact, bright red pepper of the mildest flavor, highly prized for canning. Especially valuable for warm climates. Too late for short seasons. Packet, 15c; ounce, 50c.

Parsnip A most carefully selected strain of the smooth, sweet "Hollow Crown." The best of all. Packet, 10c; ounce, 30c.

Kale A beautiful, moss-curled variety. Packet, 10c; ounce, 20c; pound, \$2.

Orache or Mountain Spinach Nearly as good and as hardy as the common spinach. About four or five times as productive, and can be grown at one-fourth the care and expense. You will be pleased with this vegetable. Packet, 10c; ounce, 30c.

Carrot—"Perfection" The most highly bred in form and quality for table use of any carrot. Early, short, oval, sweet, tender roots. Packet, 20c; ounce, \$1.

Improved Detroit Red Beet One of the best for home use. Keeps in best condition a long time.
Packet, 10c; ounce, 20c; one-fourth pound, 60c.

Moss Curled Parsley Reselected extra fine curled.
Packet, 10c.

Mustard—Moss Curled A beautiful and easily grown mustard for early greens. Packet, 10c; ounce, 20c.

Lentil (Lens Esculenta) One of the most nutritious and oldest of cultivated plants, mostly in the Eastern Hemisphere. Superior for soups. Seed very much like peas, but flat. Hardy and easily grown anywhere; culture same as common peas. Packet, 10c; ounce, 20c; pound, 80c.

Spinage Dock The giant, perennial, cultivated variety for earliest Spring greens. Packet, 10c; ounce, 50c.

MANITOWOC, Wis., May 23, 1921.—Have always been more than pleased with the results of your seeds. T. P.

SOME MOST WONDERFUL NEW GRAINS

The Best Wheat Ever Produced, a Real "Pearl" Barley, an Unequaled Rye, and the Most Productive of All Oats

Many years and great expense have been involved in their production, and none of them will ever be offered in large lots from my establishment, as other experiments must be carried on to a successful end. The profits are yours, the labor mine. Order now or never.

A New Productive Pearl White Wheat—"Quality" After eleven years of very extensive and expensive work, three years ago I offered a superior, *early, hard white wheat* suited to *all climates* wherever wheat can be grown; a Spring wheat especially adapted also to short seasons, arid soils, and dry climates. A superior white milling wheat which makes the best light, sweet, nutritious bread and pastry. *QUALITY* Wheat has been fully proved to be the *earliest* of all wheats, even *earlier, more productive, better disease-resisting* and a *better milling and pastry wheat* than the famous "Prize Marquis," taking the honors from that well-known wheat in its own Canadian Northwest, where it has won *first prizes over all others*. It has proved its remarkable value also in Australia, where so many fine wheats are grown. I offer it once more so that those who have not secured a start may have the opportunity to do so. Prepaid by mail or express, one pound, \$1; five pounds, \$4. Ten pounds, not prepaid, \$6.

Please notice what the great grain growers of the world have to say.

KELOWNA, B. C., Sept. 13, 1920.—*There is nothing better*, for "Marquis" wheat which was sown on same date in spring as "Quality" yielded only 38 bushels per acre, and "Quality" 54½. Both side by side, same soil and conditions. "Quality" standing up excellent, "Marquis" laying down in a tangled mass. Hopeless to cut with a binder. We can not speak too highly of this new wheat. J. M. C.

MAZENOD, SASK., CANADA.—I ordered some of your new wheats and oats, but was too late except for "Quality" wheat. I got one-half pound, and it produced the biggest surprise I ever got in wheat. I had grown on each side of it the finest wheat produced in Canada, such as registered "Marquis," "Red Bobs," "Supreme," "Kitchener" and some of my own new strains from the above, and it proved superior to any in early ripening qualities and firm and plump berry. Had a severe drought followed by wet. Some wheat fired and then rusted in low spots, but "Quality" wasn't "faized" in any way. "Quality" Wheat was sown about the first of June, ten days to two weeks later than the rest, and it headed out first and ripened first. Your new "Quality" stands drought better than anything I have found yet, and is the earliest. C. W. F.

WIELANGTA, WEST TAMAN, TASMANIA, Oct. 13, 1921.—I am getting on splendidly with the "Quality" Wheat. I expect to have this season to distribute about 20 or 30 bushels in Tasmania and in a few years it is likely to become the standard wheat, as we do not have a very long season. The "Quality" wheat sown in September is ready to cut in January—other wheats are as late as March. JAS. BULMAN.

ERIN VALE, WARRE WARRAL, N. S. W., AUSTRALIA, Oct. 5, 1920.—Please send me your latest catalog on new wheats and oats. "Quality" has done well here despite droughty conditions. F. J. A. F.

OKLAHOMA CITY, OKLA., August 17, 1920.—Enclosed I am sending you a small sample of my "Quality" Wheat. It was sown on January 1, 1920, and harvested 19 days earlier than the "Red Turkey" sown December last, and 7 days ahead of wheat sown in October, 1919. It tests 62 pounds to the bushel cleaned. The Acme Milling Company's Laboratories give the following test:

protein, 15%; moisture, 10.8%; ash, 62%. And it was a surprise to them. I will have about 265 bushels, and am putting it out same as last year—not selling a pound. J. A. S.

OKLAHOMA CITY, OKLA., Oct. 23.—On the 24th and 25th of February, 1919, I planted the "Quality" Wheat in drills. This was a month after the oats were sown in this country and the hard wheat was virtually covering the ground. This wheat was cut from three to seven days before any of the other wheat in the country was cut, showing its extreme earliness over the other wheat, and another proposition that took everybody's eye that had seen it was the strong vigorous straw with a fine foliage and not a sign of rust where all of our other wheat this year was covered with rust. There is no doubt in my mind but that it is the coming wheat for Oklahoma. J. A. S., President Oklahoma Threshermen's Association.

DUNLAP, IOWA.—Your "Quality" Wheat certainly has them all sitting in the back row when it comes to milling, quality and yield. M. B. B.

HILLSBORO, NEW MEXICO, Nov. 12, 1919.—The Burbank "Quality" wheat yielded a wonderful crop of smutless, plump, hard wheat; the cleanest-looking sacks I ever saw and the best d— bread I ever ate. If you had never done any other thing, you would live forever. J. A.

McHENRY, N. D., Feb. 19, 1920.—The "Quality" Wheat I got from you last year did wonderfully. I planted some "Block Chaff," "Durham" and "Marquis" the same time I did the "Quality," and the "Quality" was the only variety that matured, and gave a very good return, while the other three varieties were so badly rusted they never produced a kernel. I think your wheat will be the only wheat raised here in a few years. H. G.

ENGLEBURG, COLO., July 20, 1920.—This Fall I will have some interesting data to submit in the culture of Mr. Burbank's "Quality" Wheat, which I have been testing out for two seasons past. I consider it the most wonderful wheat in existence. W. S. B., M.D.

GRANADA, CAL., June 14, 1919.—It does me good to see what a wonderful growth the wheat which I bought from you has made. I planted it after corn as you advised and all of those who have seen it say it is the best they have ever seen. Everything I raised from your grounds has grown well. O. J.

KELOWNA, B. C., Jan. 26, 1920.—You may be pleased to know that the wheat "Quality" yielded at the rate of seventy-two bushels per acre. J. C. B.

KELOWNA, B. C., Feb. 25, 1920.—I herewith enclose copy of the score card of "Quality" wheat which took first prize at the British Columbia Provincial Seed Fair held at Kamloops last month, showing a score of 96 points out of a possible 100. J. C. B.

A New Rye—"White Giant" There is no grain crop that has such a beneficial action on all soils as rye. There is no other grain that will thrive on the poorest of soils, improving them for all other crops instead of exhausting them. A crop of rye rejuvenates all soils. I now offer a rye which is a giant in growth and productiveness, and better still, the grain is very light colored, large and fat. It is the best and the most productive rye. By mail or express, prepaid, one pound, \$1; five pounds, \$3. Ten pounds, not prepaid, \$5. Per bushel (60 pounds) not prepaid, \$18.

DETROIT, MICH., Sept. 17, 1921.—I received your seed order and the seed tested 100%. I am interested in your grains because of my past success. Please send me catalog so that I may make further purchases. E. W. L.

STELLENBOSCH, CAPE PROVINCE, SOUTH AFRICA, June 30, 1921.—I am able to report most favourably on the seeds received from you. J. C. H.

SELFRIDGE, N. DAK., Feb. 1, 1921.—I had 124 bushels of oats threshed out last Fall from your five-pound lot sent me for the Spring of 1919. J. B.

SUFFOLK, MONT., Sept. 4, 1921.—About two years ago I got one pound of your "Pearl" White Hull-less Barley, also one pound of the "Quality" Wheat. This season I raised about seven bushels of the wheat and ten bushels of the barley. I like both grains very much and would like to put in quite a field of each the coming Spring. E. H. H.

The New White Hull-less Oat—"Opaline" The time has now come when we must raise the improved stoneless fruits, hull-less grains and other products which have for so long resulted in useless waste.

The ordinary oats are half hulls which are as worthless as second class hay. This new oat is a wonderful yielder of clean, heavy, white grain which threshes out like wheat and makes the *best* of feed for man or animals, and especially for poultry. Prepaid by mail or express, one pound, \$1; five pounds, \$4. Ten pounds, not prepaid, \$6. Per bushel (55 pounds) \$18.

A New Beardless Hull-less Barley—"The Pearl" The old well-known Nepaul beardless hull-less barley was the best for *hay*, yielding a large crop in the shortest time. The grain, however, was of all sizes, shapes and colors; very far from a perfect one. After a number of years of most rigid, careful selection, kernel by kernel, head by head, plant by plant, row by row, this new *WHITE* Beardless Hull-less productive barley was produced. It will produce a great crop of unusually large, white grain of superior weight and quality. There need be no longer the old complaint of "black barley bread." "Pearl" is an improved, beardless, hull-less, white barley of unusual yielding qualities, bearing absolutely uniform, large, fat, pearly, white grain, threshing out clean like the best wheat. Growers, millers and consumers will appreciate the real "Pearl" Barley.

Pound, by mail, \$1; five pounds, by mail, \$3; ten pounds, not prepaid, \$5; per bushel (60 pounds), by express, \$18.



THE NEW BARLEY, "PEARL."

Sudan-Sorghum—A Wonderful New Forage Grass Sudan Grass has been well tested by stockmen and dairymen in Australia and California and found to be drought resistant and more productive than any grass ever before known. But through a natural cross of Sudan and a sweet Sorghum, probably "Amber" Cane, a really wonderful grass was produced, which from reliable reports yields *75 tons of sweet, nutritious silage per acre*. All new hybrids are at first variable and among the variations one was found which was greatly superior to all the others. This I now offer for the first time. Last summer it averaged on my place 14 feet in height and grew as thickly as a canebrake. It is a hardy annual and may be grown with great profit wherever corn can be grown and may be harvested two or three times during the season. Cultivate same as Sorghum. You may be sure that I know and can appreciate a valuable grass, being the introducer of the well known "Rhodes" Grass, which I imported direct from Cecil Rhodes' South African farm some twenty years ago, soon after he discovered it. Since then I have carefully tested more than 400 species of foreign wild grasses and this new "Sudan-Sorghum" is the most productive grass so far tested on my farms.

Packet, 25c; ounce, 50c; pound, \$3.25.

PIERCE, FLORIDA, Oct. 4, 1921.—Will you kindly send us full information in regard to the Teosinte Corn which you have developed. I am informed that this corn has produced wonderful results on a muck land property near Ocala, Florida, and if it will do anything like reported, it must be a wonderful product. B. L. JR.

LIDGERWOOD, N. D., August 12, 1921.—In 1919 I bought from you one pound "Quality" and one pound "Super" wheat, also one pound "Blue Arabian" hull-less barley and ten pounds "White Avalanche" oats. Of the "Quality" wheat I raised about twenty pounds from the one pound I bought of you in 1912. I seeded same on April 18, 1921, and cut it on July, 9, which I think was the earliest date that wheat has ever been cut in this country. The season was very unfavorable, as the latter part of June, when the wheat was filling, we had the hottest weather that has ever been known in the country, and while it shrunk the berry some, I threshed ten and a half bushels. I consider "Quality" wheat a great success and believe it to be the best adapted to this country of any wheat ever introduced. The Blue Arabian barley of which I seeded one pound in 1919 has swelled to about 2000 pounds this, the third crop, and the ten pounds of White Avalanche oats to about 250 bushels, and it is a good quality this year, while most of the other oats were destroyed by the intense heat. J. H. M.



CORRIENTE OAT—ABOUT ONE-THIRD NATURAL SIZE.

A New Oat—The “Corriente” Five years ago I received a small packet of oats from Peru. These were tested with all the others then growing on my farms and found, as usual, to be quite variable, one plant far surpassing all the others, though all were good. The seed of this one was saved, and I now offer the *most productive of all known oats*, both of forage and grain. The new “Corriente” is a big yellow oat of great weight and unequalled uniformity. *Now first offered.* Prepaid by mail or express, one pound, \$1; five pounds, \$4. Ten pounds, not prepaid, \$6. Per bushel (50 pounds) not prepaid, \$18.

DODGE CITY, KANS., June 6, 1921.—All the seed I ordered from you this Spring germinated wonderfully well. I enclose another order. J. S. S.

OAKLAND, CAL., December 18, 1921.—The seeds purchased from you last Spring again turned out fine. I was very much satisfied with the results I obtained. W. S. P.

Flower Seed Department

Amaranthus—"Molten Fire" (See front page cover)

Nothing can compare with this new hardy annual plant for royal abundance and brilliancy of color. It grows four feet in height by three in diameter. About August first you will have a bushy plant some two to three feet high with broad, bronzy-crimson coleus-like leaves. At this time the leaves at the top and all the side branches of the plant begin to open like gigantic dahlias of a surpassingly brilliant, iridescent color, hardly to be found outside of an electric furnace, being of a clear, glistening, fiery, rosy crimson, increasing in size and abundance until the whole plant is illuminated with huge, poinsettia-like tufts of flaming fire which can be seen for half a mile. These retain their brilliancy in best condition for *three months or more*. No other annual plant ever grown anywhere produces such a wealth of color for so long a time and for so little outlay of time and care. More than ten thousand people have greatly admired these wonderful plants on my home grounds during August, September, October and November, 1921. "Molten Fire" will soon be grown in every civilized country on the Earth. Very easily grown. Sow early after danger of hard frosts is over and transplant in any sunny place to three feet apart. Especially adapted for large garden and park borders and brilliant summer hedges, or as single specimens anywhere. Never before offered. (Directions for planting on each packet of seeds.) Packet of seeds, enough to produce 100 plants, 50c; three packets, \$1; ten packets, \$3. (No colored plate can ever give the sparkling tints of the living plant. The printers have done their best on the first page of cover.)

"Molten Fire" is so unique and beautiful that it has inspired much poetry and prose. A few lines are so appropriate that they are here given:

Molten Fire

Some burnished gold from sunrise,
Some flame from sunset's glow
Were melted all together
And placed in earth to grow.
And lo, there grew a blossom
With brilliance unsurpassed.
This is what gold from sunrise
And sunset flame have cast.

—Miss Carol Rickert, Washington, Kansas.

Antirrhinum (Snapdragon) The new dwarf large-flowering Snapdragons are becoming the popular flower both for the garden and for cutting. We offer this season a splendid strain in various brilliant colors. "Daphne"—soft blush pink; "Defiance"—orange-red; "Golden Queen"—yellow; "Mont Blanc"—white; "Rose Queen"—rose color; "Amber Queen"—beautiful amber; "Rosy Morn"—pale rose; and many others.

All the above mixed, packet, 10c; three, 25c.

Agapanthus (Lily of the Nile) Until quite lately only a small blue Agapanthus was known. I now offer *seed* which grows very readily, of one of the most beautiful and permanent of all decorative plants. A new gigantic pure white Agapanthus, bearing immense heads of snow-white flowers on strong stems, nearly four feet in height. The flowers last for months and have a most unusual decorative value. A distinct new florists' flower which will become popular everywhere. This is quite hardy throughout most of California and may be grown in tubs in the cold Eastern states.

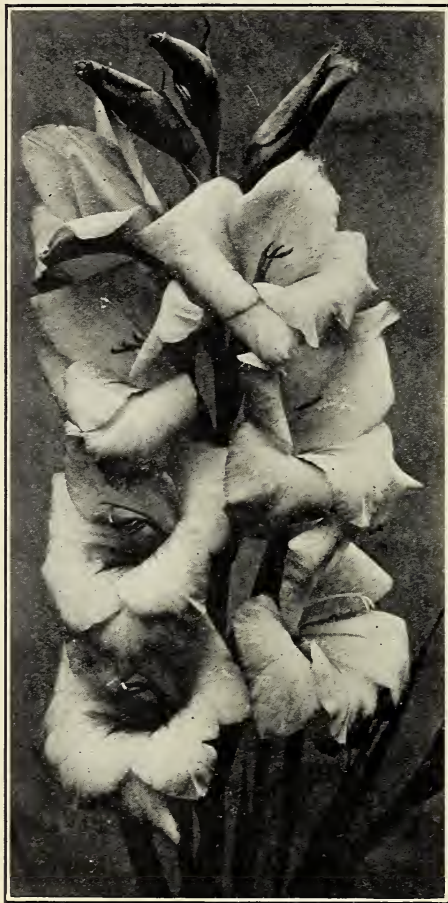
Packet, 25c; ounce, \$3.

Aquilegia—New Hybrids This favorite flower has lately been greatly improved in variety and combination of colors, including yellow, red, orange, rose, blue, purple, cerise, white, salmon, and mauve. Graceful, hardy, and easily grown. Packet, 15c; three, 40c.

Amaranthus Abyssinicus An enormous "Love Lies Bleeding." A tall, striking plant with drooping scarlet chenille-like tassels two to three feet long. Packet, 10c; three, 25c.

Argemone—New Large Flowering Hybrids Pale green spiny foliage with silvery veins. Deep poppy-like flowers, three inches across, and are now becoming double. Deep yellow to creamy white. Blooms all Summer. Packet, 10c; three, 25c.

A New Argemone—"Mariposa" This is a beautiful new Prickly Poppy "Chicalote" with blossoms of a deep rosy crimson color. A most unique addition to this interesting class of poppies. Packet, 25c.



1921 GLADIOLI—JUST A SAMPLE OF BURBANK IMPROVEMENTS—ABOUT ¼ NATURAL SIZE.

Gladiolus Burbank's
Newest Hybrids

One hundred thousand absolutely new varieties of about every form and color ever produced from this wonderfully variable plant, including scarlet, crimson, yellow, blue, purple, lavender, orange, salmon, and pink, with infinitely varied combinations of rainbow colors. Such a mass of various brilliant colors can not be produced at many times the cost of these in any other flower.

Every gladiolus bulb which I here offer originated on my grounds. For over forty years the Gladioli have been one of my specialties, and the foundation of some of the most popular strains originated with me decades ago. During the past few years *wonderful new combinations of colors and shades never before seen in any flower except the tropical orchids* have appeared in bewildering variety and abundance so that it is no longer possible to give them names, for the tender transparent orchid shades blend in endless poems of color. It seemed useless to try to introduce more Gladioli, as so many are growing them, but after my newest ones went out to the people two years ago, the demand was so great that every bulb and bulblet was called for and even the stocks which had been planted for the next season had to be dug to supply the astonishing demand.

When you plant Gladiolus *get the very newest and best* if you desire to see what can be accomplished by *forty years* rigid selection. Among these some *really wonderful prizes* will be drawn. These *seeds* have and will produce many new prize varieties of all sizes, shapes, and colors; saved from fully 100,000 varieties. Packet, of 100 seeds, \$1; three, \$2.

Gladiolus Bulbs These will produce the largest flowers and the most beautiful and varied shades ever seen in this class of plants. Often six open on a stem at once. These varieties can not be obtained except from headquarters here. Best new creations, mixed only. Each, 25c; six, \$1; ten, \$1.50; per 100, \$8.

Bulblets from the above mixed varieties, many of which will bloom the first season. Per 100, \$1.50; per 1000, \$8.

SUPERIOR, WIS., Sept. 10, 1921.—It may interest you to know that from the Gladiolus bulbs which we received from you early this Spring we won all prizes at the Tri-State Fair with the exception of the blue, for which we did not have an entry, but took everything else—first on

BURBANK'S 1922 NEW CREATIONS AND SPECIAL SELECTIONS IN SEEDS

Best Display, first on Best Three, first on Red, first on Pink, first on Cream, although we had only two creams to enter. My son and I were agreeably surprised at the beauty of these flowers and will want about 200 more bulbs the coming season. Out of the 100 bulbs planted we raised successfully 99 plants. F. H. C.

SEATTLE, WASH., Jan. 4, 1921.—Of the Gladiolus, of which you sent 100 seeds, we have unnamed varieties which are a marvel of beauty. They are a riot of beautifully blended shades and our friends go into ecstasies over them. O. E. J.

CLEVELAND, TENN., Jan. 30, 1921.—Last year I saw some gladioli grown from your bulbs and they were the most gorgeous I ever saw. Miss W. S.

SALEM, ORE.—In the Spring of 1917 I purchased of you several hundred gladiolus seeds. These were planted in April, and in June, 1918, they began to bloom. Gladioli experts here say such a thing impossible. Many of these flowers were very fine and far excel any others produced in Salem or Portland, Oregon. J. H. F.

BRUNSWICK, GA.—Please send me twenty-five thousand choice gladiolus seed. I regret that I did not order some of all your named gladioli. The "Elora" is one of the finest and most satisfactory gladioli that I have ever grown. The stalks are five to five and a half feet, with flowers up to five inches across, with six flowers open at once. The top flower on one stalk had twenty-four petals and was five inches across. That was some flower. C. S. T.

CAIRO, ILL., July 19, 1919.—Three years ago I got a package of gladioli seed from you. All have bloomed this year and most of them were beauties; several, I think, better than "Elora." One is a crushed strawberry and cream pink with a spike of sixteen flowers, three of which were double, having twelve petals each to the other flowers' six. The flowers were set around the stem more than other kinds and looked like a large canna truss. C. B.

BUFFALO, N. Y., Dec. 28, 1919.—The bulbs I purchased of you last year were a wonderful success and I assure you they were admired by those who saw them. E. C. S.

AURORA, ILL., Oct. 13, 1920.—I am particularly well pleased with the Gladiolus purchased from you. W. B. D.

VINCENNES, IND.—It is an unusual experience for a grower to write the originator of a new variety of flower that the plants exceed his claims. Your new gladiolus "Elora" is now in bloom and is a beauty. You claim that it grows three and one-half feet tall and that the individual flowers are four and one-half inches in diameter. My plant is four feet tall and the blooms measure five and one-fourth inches in diameter. This kind of a flower from a *bulblet* I regard as remarkable. All of your seeds have made a remarkable record for germination. From twenty-three tomato seeds planted, twenty-three plants came up. It is a novel experience to me to have plants and seeds do more than is claimed for them. You richly deserve your success. M. O.



HYBRID SHASTA DAISY—ONE OF THE NUMEROUS TYPES OBTAINED FROM SEED.

Shasta Daisy Too well known the world over to need description. Most carefully selected and best mixture ever offered of this most popular of all white flowers. Packet, 25c.

Bidens Dahloides A beautiful new tuberous type of *Cosmos-like* flowers, produced from the "Black Dahlia." The plants bloom abundantly the first season from seed and may be kept over and divided like Dahlias. These charming plants grow about eighteen inches in height and produce large,

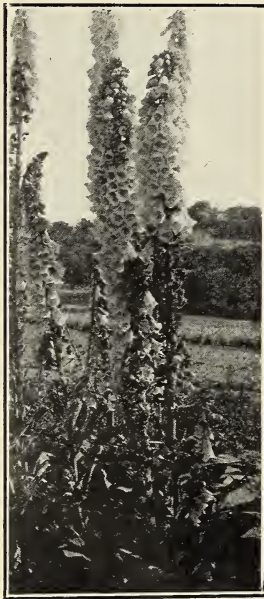
graceful, white, black, red, and pink flowers on long, slender, wiry stems all Summer. One of the best of all the absolutely new plants.
Packet, 20c; three, 50c.

Boltonia—New Dwarf Deep lavender aster-like flowers in greatest profusion. This fine variety originated on my grounds and is now offered. Packet, 25c.

A Flowering Bulrush The plants appear like the common bulrush, but each stalk bears a cluster of rosy crimson flowers very early in the Spring. Perennial; readily raised from seed. Packet, 15c.

Cactus Pitajaya A thorny club cactus which produces wonderful, fragrant, pure white flowers six inches across, and fruits as large as plums, with a white flesh of excellent quality. Will endure freezing down to about 10 degrees above zero. Easily raised from seed. Packet, 25c.

The New Paraguay "Fountain Grass" Seeds of this and hundreds of other rare plants were collected for me by the Guaranie Indians from the wilds of South America under the guidance of P. Francisco Muller, a Paraguayan missionary. It is a perennial grass growing from three to four feet in height, producing most gracefully drooping plumes of almost silvery whiteness. Especially valuable for winter bouquets. Should probably be grown as an annual except in mild climates. Packet, 20c.



FOXGLOVE.

Digitalis Grandiflora—Foxglove Mixed. Tall, stately, handsome biennials. Flowers crimson, rose and white. Packet, 10c; ounce, 20c; pound, \$2.

A Golden Marrubium This familiar hardy aromatic perennial herb so much used in confection is very readily grown from slips or seeds. Among the thousands of wild plants by the roadside one was noticed with two or three branches of a pure golden yellow and from the seeds of these branches a variety has been produced which can be readily grown from seed, 60 per cent or more coming with pure golden foliage. A gem for growing anywhere, out of doors, or in baskets, pots, window gardens or greenhouse. Never before offered.

Seeds, per packet, 20c; three, 50c.

Centaurea Imperialis Beautiful, hardy carnation-like annual. Mixed colors. Packet, 10c; three, 25c.

Celosia-Plumosa A specimen plant in pot or open ground is a vision of beauty. The most graceful, feathery, and beautiful of the celosias. Select type seed, various clear colors mixed. Packet, 15c; three, 40c.

Geum—Mrs. Bradshaw This beautiful new perennial Geum produces a multitude of double orange-scarlet flowers two inches across throughout the season. Packet, 15c.

A New Godetia Our native Godetias are among the most prized of annuals. This new Chilean trailing Godetia is of a wholly new form and color—lavender blue. Blooms all the Spring and early Summer. Seed, per packet, 20c; three, 50c.

Cocoanut Geranium This new Geranium from West Australia in foliage much resembles the well known fragrant Rose Geranium, but is low growing and compact, with unusually handsome crenate leaves. The whole plant has a most delicious, strong cocoanut fragrance. The best of its class and useful as single specimen or in borders. Packet, 20c; three, 50c.

Australian Gooseberry Gourd Very rapid-growing vine with fruits resembling gigantic gooseberries. Packet, 10c.

Glaucium—New Hybrids Hairy poppy-like leaves and large saucer-shaped flowers of pale and deep yellow, followed by curious long slender pods. Hardy perennial. Packet, 10c.

Sweet Peas "All Summer" Mixed A new strain produced by crossing the dwarf greenhouse varieties with the Spencer type. Blooms very early and late. Packet, 10c; ounce, 15c; pound, \$1.

DODGE CITY, KANS., July 11, 1921.—The "All Summer" mixture of sweet peas have been exceedingly fine. They began blooming about a month before any other early flowering kinds I had.
Mrs. J. S. S.

Perennial Pea The Burbank strain of hardy perennial peas raised here for a third of a century is not surpassed in abundance and size of flowers, length of stem, or variety of shades. A packet of seeds will supply flowers for a score of years. Packet, 15c; two, 25c.

NEW BEDFORD, MASS., May 13, 1918.—You are most generous, and we are grateful. Our garden is rich in plants from "Burbank" seeds of former years, a fence covered with your Perennial Peas being the envy of all beholders. Our New England garden is a California garden.
J. B. VAN N.

The New Coreopsis Lanceolata Grandiflora Magnificent great yellow blooms on long stems. Packet, 20c; three, 50c.

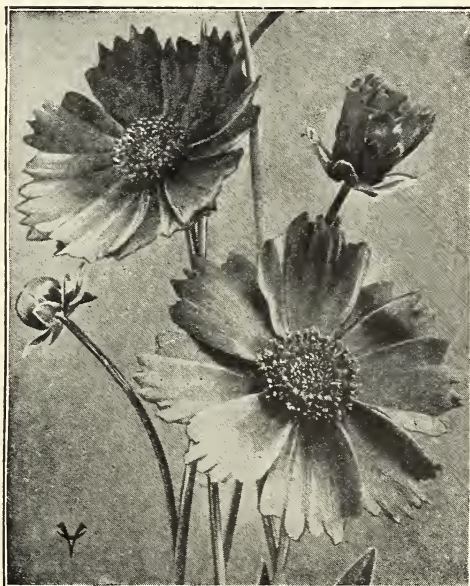
Coreopsis Golden Wave

Rich golden yellow, brown center; very free flowering. Packet, 10c; three, 25c.

Acrolinium One of the most graceful and beautiful of the "Everlastings." Charming rosy-pink flowers in abundance. Especially fine for Winter bouquets and a beautiful Summer border plant. Height, 12 inches. Packet, 10c; three, 25c.

Gomphrena A first-class "everlasting" and a fine bedding plant. The flowers resemble brilliant clover heads; crimson, rose and white mixed. Packet, 10c; three, 25c.

Helichrysum One of the very best of all the "everlastings." Beautiful double daisy-like flowers which make a fine display of color all Summer and for Winter decoration unsurpassed. Double, deepest crimson, rose, dark yellow, pink and lemon shades, also pure white. Give plenty of room. Height three feet. All colors mixed, packet, 10c; three, 25c.



COREOPSIS LANCEOLATA GRANDIFLORA.

Cosmos Well-known graceful Autumn-blooming flowers. Extra early Cosmos, mixed colors. Packet, 10c; three, 25c.

Canterbury Bell Beautiful large, bell-shaped blossoms, mixed colors, blue, rose, and white. Packet, 10c; three, 25c.

Calendula or Winter Marigold One of the finest hardy annuals, blooming all summer, and in California and other mild climates nearly all Winter, when other flowers are scarce. Handsome double orange, yellow, creamy-white, and variegated. *The Burbank Calendulas are widely used for decorations.*

Large packet, 10c; three, 25c; ounce, 30c; pound, \$1.

YOUNGSTOWN, OHIO, March 26, 1921.—We have never had such beautiful Calendulas as the "Burbank."
Mrs. W. B. H.

MONTARA, CAL., June 7, 1921.—I find your Calendulas wonderful as to size and doubleness of bloom and long continued blooming. Much better than I can get anywhere else.
C. B. W., Florist.

MADISON, WIS., Sept. 6, 1921.—You certainly have most wonderful seeds. I started some Winter Marigold seed Friday and by Monday they were through the earth. I never had such success with any other seeds, though I have grown seeds for over sixty years. Am 81 years now. Mrs. D. L. W.

Dianthus or "China Pink" Giant mixed. A well-known, most beautiful hardy annual. The petals of the "Giant" are ruffled, fringed and frilled, lending an unusual grace to the multi-colored blossoms of deep to glowing crimson, rose, salmon pink and white, mottled and blended in a variety of shades. Packet, 20c; three, 50c.

Burbank's "Mayflower" Verbena By both European and American growers known as the best selected and most fragrant strain. Extremely large flowers in wonderful bright shades of pink, scarlet, rose, blue, lavender, crimson, purple and white. Packet, 20c; three, 50c.

Verbena—Pure Scarlet One of the most brilliant and striking plants for all Summer blooming for borders and general effectiveness in color. Packet, 15c; three, 35c.

Verbena Pure white, very large flower, often quite fragrant. Packet, 15c; three, 35c.



THE NEW SWEET SCABIOUS.

Sweet Scabious To those who have not grown the new Scabious, the soft lavender, blue, pink and white shades will be a surprise and delight. Easily grown annual; especially fine for cutting.

Packet, 10c; three, 25c.

Spiroea Aruncus (Goatsbeard)

If you have never grown this in pots as a house plant you will be surprised that a plant producing such filmy, fern-like leaves has not before been offered for this purpose. Grows readily anywhere.

Packet, 15c.

New Hybridized Sunflowers Seeds of all sizes and colors; giant and dwarf flowers, single and double. Clear red, yellow, orange, primrose and variegated flowers. Most unique and remarkably interesting varieties in great profusion are produced from this seed.

Packet, 15c; ounce, 50c.

NEW ORLEANS, LA., Dec. 14, 1918.—The inclosed kodaks show an unusually large sunflower (for this locality) grown from seed purchased from you last Spring. The tree was about twelve feet or more. The center part of the flower was from thirteen to fourteen inches in diameter, and with petals extended made the width between point of petals about nineteen inches. The color was a beautiful orange-yellow with the browner center.

A. R. C., M.D.

The New Red Sunflower You will be surprised with the beauty of this new and highly selected strain. Packet, 10c; three, 25c.

VINCENNES, IND., Feb. 7, 1920.—I want to tell you the red sunflowers I grew from the seed bought from you were beautiful and greatly admired by my friends.

Mrs. E. C. H.

Platycodon New single and double blue and white mixed. Packet, 10c; three, 25c.

Platycodon New Double White Hardy perennial never before offered; very choice, clematis-formed double snow-white flowers. Plants, dwarf, eighteen inches to two feet. Packet, 25c; three, 50c.

Larkspur Annual Stock Flowered Beautiful spikes of pink, rose, blue, and white. Exceedingly effective for beds, borders, or for cut flowers. Packet, 10c; three, 25c.

Morning Glory New striped, very charming. Packet, 25c.

Morning Glory—"Crimson" One of the largest and most beautiful and easily grown of all the morning glories.
 Packet, 10c; ounce, 30c; pound, \$2. Special rates for larger lots.

Hunnemannia The Mexican "Golden Cup" is a more brilliant golden yellow and grows more shrubby than our native; blooms all Summer, and the flowers, when cut, keep open and fresh for a week or more.
 Packet, 15c; two, 25c.

SAN DIEGO, CAL., June 8, 1921.—I surely enjoy planting seeds that give as uniform and perfect blooms as yours do.
 Miss H. W. A.

Statice (Sea Lavender) Easily grown, fine, hardy perennial "everlastings"; yellow, blue and white. Yellow, packet, 10c; three, 25c. Blue, packet, 10c; three, 25c. Mixed colors, packet, 10c; three, 25c.

Hardy Purple Pea Very much like the sweet pea but not fragrant. Large rose-purple flowers. Blooms here all winter.
 Packet, 10c; ounce, 25c; pound, \$2.50.

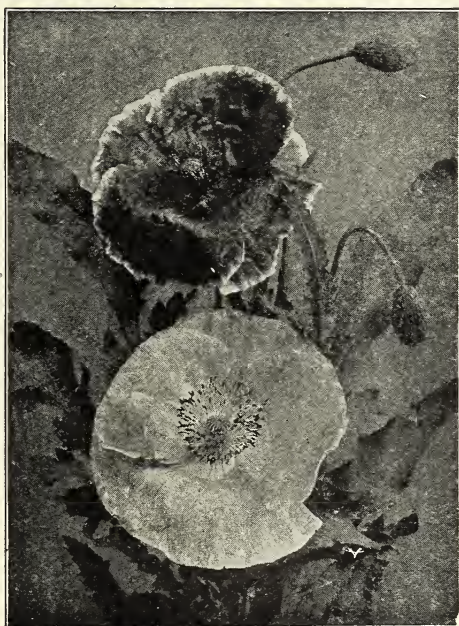
Burbank Shirley Poppies

This beautiful strain has been carefully selected each season for more than twenty years and is the foundation for many of the strains offered by other seedsmen. 1921 selection, packet, 10c; three, 25c; ounce, \$1.

SRINAGAR, KASHMIR, INDIA.—Some lovely varieties of Shirley Poppy and some remarkably beautiful Delphiniums came into bloom. I had obtained them from Mr. Luther Burbank, the famous plant breeder of California. (From book written by Sir Francis Younghusband.)

Shirley Art Poppies Burbank's latest production; wonderful combination shades of salmon, soft rose pink and white semi-transparent crêpe-like flowers. The most elegant and beautiful of the whole world's poppies. Packet, 20c; three, 50c.

VICTORIA, B. C., July 26, 1921.—Practically all of your seed supplied us last Spring did well. We are growers of named varieties of sweet peas and of the Antirrhinum, pansy and poppy. Regarding the latter, we are making a special feature of your Shirley Art Poppy. This is an extremely beautiful and delicate production.
 S. SEED CO., LTD.



SHIRLEY POPPIES.

Giant Shirley Poppy Crimson shades. A cross of the Shirley and Tulip poppies. Many of these enormous fiery flowers are seven or eight inches across; a blaze of colors. Packet, 20c; three, 50c.

A New Poppy—Orange Cream The Eschscholtzia Californica is almost always called the "California Poppy"; it is not a true poppy. The *real* California poppy is an exceedingly rare plant, growing in only two places in the world, and is not even mentioned in cyclopedias and botanies. Years ago I began its improvement and now offer seeds of the *Orange-cream Poppy*, one of the most beautiful of all. Annual, fifteen inches high. Flowers on long slender stems of a color rarely seen in any flower.
 Packet, 20c; three, 50c.

A New Everblooming Poppy Several years ago I succeeded in crossing the Oriental (perennial) poppy with the Pæony flowering (annual) poppy. The result was a strain of single *perennial everblooming* poppies bearing enormous flowers on long stems, of various shades of scarlet, crimson and orange. *Unlike all other poppies, these bloom all the time throughout the year* in this climate and may perhaps be hardy in severe climates. Seeds rarely produced and never before offered. Packet, 25c.

Poppy—Rosy Giant New. Never before offered and without doubt the most charming of all the giant pæony flowering poppies. Thousands of people who passed my home place last summer were surprised and delighted with the rare beauty of the Rosy Giant. Height 3 feet. Sow thinly as every seed will make a rugged plant. Packet, 20c; three, 50c.

California Poppies (Eschscholtzia) Most beautiful selection of large white, pink, crimson, yellow, and the new flame shades mixed. Packet, 10c; three, 25c; ounce, 40c; pound at special rate.

FAIRHAVEN, MASS.—Everything from your seeds for the past five years has done well. The California Poppy bed is as fine as if it were in your State. It has been a blaze of color since June and is still in bloom. Many of the blossoms are three and one-half inches in diameter, with foot-long stems. The "Desert Sunset" Asters have been wonderfully lovely; such an exquisite shade. The colors of your gladioli have been marvelous. J. B. VAN N.



OENOTHERA "AMERICA."
SINGLE BLOOMS NEARLY AS LARGE AS AN ORDINARY POCKET HANDKERCHIEF.

Oenothera "America" (Evening Primrose) My gigantic Evening Primrose of snowy white has given universal satisfaction wherever grown. The blossoms are nearly or quite eighteen inches in circumference, a single petal covering a whole flower of other kinds. Packet, 15c; two, 25c.

THAMESVILLE, ONT., CANADA, Jan. 31, 1921.—We are more than pleased to say that the seed we got from you last year did well, and we are very proud of the results. The Evening Primrose and Blue Petunia made us splendid greenhouse plants. T. G. W.

TAMPA, FLORIDA, August 22, 1921.—The Oenothera "America" was grown in what is known as ordinary Florida sand with very little fertilizer, but even with these disadvantages they were a surprise to all who saw them. In the moonlight they appeared as large as saucers. The Blue Petunias were a splendid success. W. W.

Oenothera Biennis Variety Hirsutissima. A native, tall, large-flowering, yellow evening primrose. The young roots are excellent either boiled or pickled, and in Europe are sliced for salads. Packet, 10c.

Petunia Hybrida Grandiflora Mixed This seed produces flowers of almost every named variety and in all the colors and shades, unique forms and combinations. Not less than fifty large-flowering varieties. Packet, 25c.

Petunia—Rosy Morn Soft carmine-pink with white throat; makes a very dainty and effective border. Packet, 15c.
No flower stands drought, poor soil and neglect better than the Petunias.

ST. PAUL, MINN., July 1, 1921.—The flowers from your seeds are much larger and grow more profusely than any we get from the seed houses here. H. S. K.

The Blue Petunia *This new color in petunias is a very pleasing one never before obtained. The seed now offered comes "true blue." A very beautiful petunia. Packet, 15c.*

DILLON, MONT., March 6, 1920.—Your new Blue Petunia is a rare and beautiful flower. My petunias started to bloom when four inches high, and have been loaded with blossoms ever since. Mrs. A. C.

CHRISTIANA, PA., Aug. 22, 1921.—In all my life I have never seen or had a flower that I loved more than your Blue Petunia. It is admired by all who see it. Always send me each issue of your catalogue. O. P. B.

YONDER, NEAR KENILWORTH, KIMBERLEY, SOUTH AFRICA, Oct., 1921.—Your Blue Petunia made a wonderful show. I put on about fifty tins of it at our last show, and it was said to be the most admired exhibit at the show. Your new poppy, "Orange Cream," has also done well. A. F. W.

DODGE CITY, KANS., July 11, 1921.—The Blue Petunia attracts attention from every one and is very beautiful. Mrs. J. S. S.

MACOMB, ILL., Nov. 19, 1921.—A friend gave me some of your Blue Petunia seed and they were something beautiful and something different from anything we ever had. F. D.



THE NEW "BLUE" PETUNIA.
—Photo by Herbert Gleason, Boston.

Whitlavia (California Bluebell) Easily grown annual, a foot or more in height; beautiful blue flowers. Packet, 10c; three, 25c.

Iris Longipetala "Radiata" An improved maritime Iris which, from single roots spreads slowly but very surely, making a solid mass of dark green glossy leaves two feet in height, which forms a permanent challenge to water washing currents on banks and in fields. The large, pale bluish flowers are ornamental. Never becomes a weed. The plants make fine borders for shrubbery. Packet, 20c.

A New Tritoma—"Exquisite" A most beautiful new dwarf, almost ever-blooming Tritoma, bearing yellow flowers, shaded crimson, in unusual abundance. Packet, 20c.



GIANT DAHLIA FLOWERING ZINNIAS.
Four to six inches across.

Burbank Giant Dahlia Zinnias

Burbank 1921 selection. *New, enormous* double flowers, just like dahlias, of various *greatly improved colors all Summer*. Packet, 15c; three, 40c; ounce, \$1.25.

For fifteen cents as gorgeous an effect is readily produced as an outlay of twenty-five dollars would purchase if expended for Dahlias.

PUTNEY, GA., Oct. 8, 1920.—The flowers from your Zinnia seed were wonderful. It is a flower that does well here, in fact I am having flowers from the seed of flower seed sown last Spring—two crops in one season. Mrs. M. W. G.

MANCHESTER, MASS., March 11, 1920.—The Zinnias were regular giants. Exhibited a table of your Zinnias at our local show last August, and of course no one had any half as large, to say nothing of the colors. A. C.

DETROIT, MICH., Jan. 30, 1921.—For two seasons I have taken first prizes with the flowers raised from your seeds. Last year and this year I used marigolds for a basket, competing for the most artistic basket. I received first prize both years. This year the flowers were from seedlings from last year's blooms. This was simply gorgeous in color and size.

year I received a first prize for the best quality of flowers and in this competition I used flowers grown from your Giant Dahlia Zinnias. They were simply gorgeous in color and size.

SALT LAKE CITY, UTAH, June 10, 1921.—Last year I had a large bed of your Giant Dahlia Zinnias in my garden. A good many visitors came to see them. On account of their beauty and color and enormous size, nothing like them had been grown here.

COLUMBUS, GA., March 31, 1920.—Zinnia seed ordered from you last year were far beyond my expectations, producing most perfect blooms from the middle of June to November first. E. B.

VINCENNES, IND., Feb. 7, 1920.—The Zinnias were the finest I ever saw, so perfect.

Mrs. E. C. H.



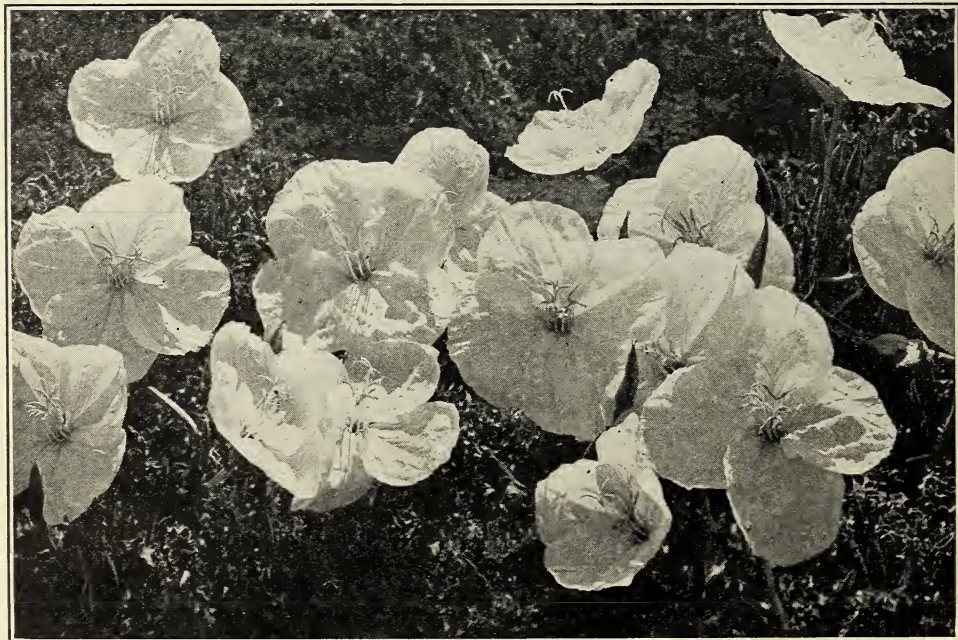
FIELD VIEW OF BURBANK DAHLIA ZINNIAS.

The Burbank Dwarf Zinnias New. Most charming brilliant red and yellow shades of most perfect doubles. Flowers in utmost profusion all Summer. Packet, 10c; three, 25c; ounce, 75c.

BAGLEY, Md., Sept. 18, 1921.—Last Spring I sent you an order for your improved Zinnias. I am writing to tell you what a joy these plants have been to me. I and all my friends have admired the unusual size of the flowers, their wonderfully beautiful shades of color. We had a destructive drought here in June and July, but all the Zinnias came up, and the dwarf ones, also, and are still delighting us. I. C.

BROOKLAND, D. C., Feb. 16, 1921.—The Zinnias were a great success and much admired last summer. Miss E. R.

BERLIN, N. Y., June 8, 1921.—The Zinnia grown from your seed obtained last year were the finest I have ever seen, both giant and dwarf, and many visitors to my gladiolus fields saw and much admired them, and I hope you may have received many orders by reason of these visits. A. C., Gladiolus Specialist.



OENOTHERA AMERICA.

Bulb Seeds

Asclepias Incarnata Hardy Butterfly plant; free flowering perennial. Packet, 10c; ounce, 60c.

Brodiaë Capitata Alba A snow-white flowering brodiaë. Flowers on long wiry stems. These remain in best condition when cut for a month or so. Very useful for florists. Bulbs edible. Packet, 20c.

Brodiaë Mixed Best species and varieties. Blue, rosy-crimson and white. Packet, 20c.

Camassia Hybrids Often called Indian Potato. These beautiful hybrids, all of which originated on my farms, bear the largest and brightest colors known in this genus, on short compact stems. In these you have the best in the whole Camassia world. Packet, 25c.

Isemene Calathina This unique bulbous Amaryllis-like plant produces an abundance of large transparent white flowers. Easily grown from the large black seeds. Packet, 20c.

Watsonia—Burbank Hybrids New Hybrid Watsonias are growing on my farms by the acre. More new and extremely beautiful varieties than on all the rest of the globe. Giant white, single and double, tall and dwarf, yellow, orange, pink, rose, crimson, purple, salmon and scarlet; a veritable transformation from an ordinary flower to one equal to the modern gladioli. Packet, 50c; three, \$1.

Sparaxis Pulcherrima (Dierama) Slender iris-like foliage and very graceful long, slender, drooping stems with rose-colored flowers like giant ixias. Hardy where the ground does not freeze over two inches deep. Packet, 15c; ounce, 25c.

ST. PAUL, MINN., Feb. 24, 1921.—I planted your hybrid Watsonia seed and they came up in about ten days. I think your seeds of Watsonias are wonderful to come up so fast, and they all look extra fine. I have had extra fine luck with all the seeds I have received from you. V. V. G.

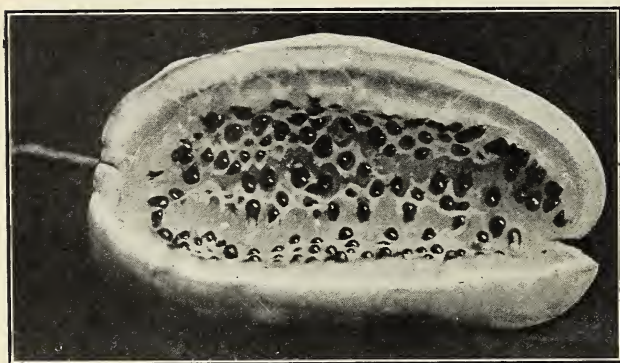


THESE PARAGUAY INDIAN CHILDREN COLLECT WILD SEEDS FOR ME.

Tree and Shrub Seeds

Actinidia Arguta A hardy perennial climbing shrub from Korea, growing to a height of twenty feet or more and bearing great quantities of greenish fruits in clusters, each fruit an inch long by three-quarters of an inch across; sweet and delicious, having a unique flavor something like figs, plums or sweet gooseberries. A handsome and highly useful vine for its delicious fruit. Being diœcious, it requires both male and female plants near if abundance of fruit is desired. Perfectly hardy as far north as Canada. Packet, 25c.

Akebia Quinata Very hardy deciduous climbing vine; fragrant chocolate-colored flowers and edible fruit, in appearance like a very small banana. Packet, 25c.



FRUIT OF AKEBIA QUINATA.

New Chilian Abutilon

One of the most magnificent of all blooming large shrubs or small trees. Saucer-shaped flowers in astounding profusion nearly three inches across, on long slender stems. Far harder than any other Abutilon or "Flowering Maple." Readily enduring a zero temperature. Seed from select pure white ones, and seed from select porcelain blue ones.

Packet, 25c; ounce, \$1.

Genista Florabunda (New remontant) Shrub bearing all Summer beautiful golden pea-like blossoms in greatest profusion. *This greatly improved Genista* will be a prize for florists for cut flowers and as an ornamental shrub can hardly be surpassed. Seeds rare.

Packet, 15c; ounce, 50c.

Hardy Perennial Hibiscus New California hybrids; enormous flowers of most beautiful shades of crimson, pink and white. Far superior to any others. Packet, 25c.

Hibiscus Manihot Very large, handsome, lemon-yellow flowers. Annual, blooming late first season from seed. Perennial in California and other mild climates. Packet, 20c.

New Cytisus Hybrids Rare shrubs producing an abundance of orange, crimson and yellow variegated blooms of unusually large size and mostly fragrant. Packet, 15c; ounce, 40c; pound, \$3.

Dracœna Indivisa The Dracœna (Dragon Tree) so freely used in the streets and parks of California. Grows to about 12 feet in height, then branching into a symmetrical tree. The foliage is the best tying material so far found for shrubs, vines, berry plants, etc., far better than hemp rope. Sooner or later this Dracœna will be grown by the acre for its fibre, which requires no preparation except to moisten the leaves and split into widths appropriate for use. Seed, per packet, 10c; three, 25c.

Beauty Leaf Several years ago my Chilian collector sent this one among some 3000 other species of wild plant seeds and although it seems to have no name, yet the abundant foliage is so remarkably beautiful that it should be distributed. The plants may be treated as annuals in all cold climates.

Packet, 20c.

Hypericum Moserianum A most graceful perennial plant; wonderfully free blooming. Flowers rich golden yellow, two inches across. Blooms throughout the whole Summer. Height two feet.

Packet, 20c.

Quillæ—Chilian Soap Tree A handsome, symmetrical evergreen tree bearing most unique blossoms and seed pods. The bark is the well-known "Soap Bark" of commerce. Packet, 15c; ounce, 75c.

Calistemon Speciosus One of the most beautiful and unique of the Australian shrubs; flowers dazzling scarlet, height 4 to 6 feet. Only hardy in rather mild climates. Packet, 20c.

Ptero Carya Caucasica A new rapid growing type of *Circassian Walnut*. The Circassian Walnut lumber is about the handsomest and most expensive of all for furniture. The variety which I now offer for the first time is fully four times as rapid in growth as the general stock. A most beautiful *hardy* shade tree, besides its unusual value for timber.

Seed, per packet, 25c; ounce, \$1.

A New Grape (*Vitis davidi*) During the fall of 1909 I received from an American missionary stationed in Shantung, China, seeds of a native grape which was said to be an unusually vigorous vine with very large leaves, bearing long clusters of grapes which were superior for jelly making. During the years intervening, thousands of seedlings have been grown and fruited, and I now offer this new species of grape. The vines are strong growers like the American grapes, and like them, thrive best when pruned long and trained on trellises. The fruit of medium size is borne loosely in very long clusters, comparing favorably in weight per vine with our cultivated grapes. The vines are wholly distinct from all other grapes in having the whole surface bark thickly covered with corky gland-tipped projections, giving them a very curious appearance. The leaves are very large, five to seven inches wide, and exhibit many beautiful autumn colors. But, above all, the great value of this new grape is in the wonderful juices furnished by its fruit. For jellies it can not be surpassed, but better still, as a grape juice product no other grape can surpass it in excellence. The juice is as dark as the juice of blackberries, and has a somewhat similar rich, blackberry flavor and aroma. The time will soon come when all the fruit juices will find their peer in this product. It is difficult to raise this species from cuttings, but fortunately they come almost true from seed, and whether they will thrive when grafted on our common vines has not yet been tested. It may not prove wholly hardy in the colder northern states, yet, even there, it should be tested. Large packet, 25c; ounce, 50c.





A New Decorative Dahlia

During thirty years, while carrying on experiments for the improvement of the Dahlia, I was fortunate in producing a number of unique varieties which are extensively grown, such as "Golden West," "Oakland," "David Burpee," "Lavendera" and others. The nameless beauty (picture of which accompanies this) is probably the largest, or at least one of the largest, dahlias known. The flowers, which are produced in the utmost profusion throughout the season, are from *six to nine* inches across, always fully double and of a pure, deep lemon-yellow color. The photo-engraving gives only the form. The size and pure color of the flower must be seen to obtain a comprehensive knowledge of its surpassing size and beauty.

Not having the time to introduce this at retail, the complete stock of fifty field-grown clumps is offered for \$100. An unusual opportunity for a dealer or an amateur to obtain one of the best new creations in dahlias.

HENDERSON, KY., Nov. 1, 1921.—The seeds and bulbs I bought from you last year succeeded wonderfully, notwithstanding the very hot, dry summer. The Dahlias were marvelously beautiful and the admiration of every one who saw them. M. T. B.

BENNINGTON, VERMONT, Jan. 25, 1921.—Each year I grow flowers from your seeds and have wonderful success. Have wonderful dahlias grown from the seed obtained from you, also magnificent delphiniums. Have about 200 fine gladioli grown from your bulblets, also your beautiful "Elora." Mrs. M. B. H.

NUTWOOD, OHIO, Nov. 4, 1921.—The "Burbank" sweet corn is ahead of anything I have ever tried as regards quality. C. H. D.

**Just a page of opinions on books, fruits, grains, flowers,
etc., late samples like thousands more**

HARDIN, MONT., Dec. 20, 1921.—The "Sunberry" made a great hit and fits in here better than any new garden plant I have tried. The "Burbank" tomato is excellent. The artichokes fruited the first season from seed. I planted one-half pound of "Quality" wheat and harvested 64 pounds under dry land conditions. It was a very hard year for wheat here, crops going from 20 bushels to nothing. I got first place on it at the Midland Empire Fair at Billings. I believe this is a great wheat for Montana. M. E. W.

HUMBOLDT, TENN., Sept. 2, 1921.—Last January I secured enough of your famous "Burbank" tomato seed to plant one-half acre. From this I realized a net profit of \$350 notwithstanding this season has been the worst this section has ever experienced from the standpoint of weather conditions, insects and blight. In fact, I realized more money from the one-half acre of "Burbank" than from two acres of other varieties planted at the same time and in the same field. I attribute my success with your tomato to its earliness and blight-resisting qualities, it being fully two to three weeks earlier than any other tomato in my selection. At the time this patch of tomatoes was in its prime a traveling fruit dealer of Center Hill, Florida, was on my farm and pronounced it the finest tomato crop he had ever seen. He now desires to try out your tomato in Florida. C. P. A.

CHESTER, S. C., Feb. 2, 1921.—I ordered your twelve volumes in which is described so minutely and vividly your work. I have been reading these books with deepening admiration and wonderment. It is a work for the ages. My mind has been stirred as nothing has ever stirred it before, and my imagination has been set on fire by the simple recital of your miraculous creations. My children have been feasting upon the glorious photographs, so real are they. L. M. W.

BATH ROAD P. O., ONTARIO, CANADA, Feb. 1, 1921.—Your "Burbank" tomato is all that you claim it to be. I found it at least three weeks earlier than any variety known to me, and would recommend it to all gardeners, especially more so to the gardener engaged in the work from a commercial point. Am satisfied it to be a money-maker for them. R. J. B.

NUTWOOD, OHIO, Nov. 30, 1921.—The "Quality" wheat did well, and was the cause of much interest among the farmers here. C. H. D.

BAGBY, CAL., December, 1920.—Three years ago I secured some of your "Super" wheat. It proved to be the best wheat I have grown in this section. I have a field I am sowing from the three years' multiplication of *four heads—about four acres*. I. J. B.

LEWISTON, MAINE, Feb. 17, 1921.—Dept. of Biology, Bates College.—I wish to express my appreciation of the excellent qualities of the seeds received from you last year—especially may I emphasize the unusual qualities of the "Burbank" tomato. F. E. P.

RED DEER, ALBERTA, CANADA, March 15, 1920.—I suppose this is as far north as you sell any seeds. Two years ago I ripened a lot of your tomatoes on the vines. Your "Burbank" tomato is by far the earliest I have ever tried. A. T. S.



THE PERGOLA IN FRONT OF OUR STOCK SEED DEPARTMENT. TREES, VINES AND FLOWERS
MAKE HOMES AND PLACES OF BUSINESS ATTRACTIVE.

THOMASVILLE, GA., Dec. 19, 1921.—We have read your book, "The Training of the Human Plant," in the garden club of which I am secretary, and I am now using it in my Girl Scout troop of twenty-four members. I think it is the most beautiful book I ever read, and how we could train our girls to be just as we would have them if we could get them to feel the meaning of the Human Plant life.

Mrs. G. S. C.

BRAZILIAN PRICKLY TOMATO

A new fruit for North America, though it has long been a favorite in Brazil. The first lot of seed was sent me eight years ago, "to have the spines removed," and, though the spines are not yet disposed of, yet the fruit has been greatly improved in size and quality and induced to drop from its prickly husk, when ripe, to which it used to cling with tenacity. The productiveness of the plant has also been greatly increased, and it is so unique and excellent that it is now well worthy of introduction. On last cover page the colored photograph shows sample fruits about half natural size. Cultivation same in all respects as for common tomatoes. The bushes grow four feet in height and three across. The whole plant is prickly. The fruit grows in drooping racemes of eight to twelve each in calyces like chestnut burs, but has been trained to drop when ripe. The bushes continue bearing until very hard frosts. Packet, 25c; three, 60c.

See next page.

THE "ORANGE" SUNBERRY

This *new* Sunberry, *now first offered*, in growth and general appearance of the plants very much resembles the black Sunberry, though even more productive, and the berries grow in larger clusters, but, above all, *the berries ripen nearly or quite a month earlier*. The berries are not quite as firm or sweet, but its extreme earliness, beautiful orange color and its abundance of fruit will appeal to the thousands who have grown the black Sunberry. Treat same as tomatoes, but on poor, sandy land they may be planted closer—say one by three feet.

Packet of 100 seeds, 25c; 1000 seeds, \$2.

See next page.

PERUVIAN "WINTER GRASS" (*Phalaris stenophylla*)

For the last few years I have been testing a strong-growing, hardy evergreen grass which was sent me from the mountains of Peru, where it is very justly considered the "king of winter grasses." During the coldest of winter weather here, when all other grasses, including also alfalfa, are brown and dormant, this remains fresh, green and growing. It grows thriftily through drought, heat, snow, frost or flood, producing fresh, green feed abundantly and constantly, of superior quality, throughout the whole twelve months. It will be extensively grown, like alfalfa, in all mild climates, supplying, as it does, fresh green feed when *all other grasses* and alfalfa are apparently dead. *PERUVIAN WINTER GRASS* is the most promising of several thousand foreign and native grasses for winter feed which have been tested on my farms during the past forty years. For all kinds of stock and for poultry it is unexcelled. If you live in a mild climate do not fail to get an early start of this *winter* grass. Packet, 20c; ounce, \$1.



BRAZILIAN PRICKLY TOMATO.

About half natural size with leaf and raceme of calyces from which the fruit has fallen. For description and prices see cover page 3.



Five clusters of the BLACK SUNBERRY and five of the new ORANGE SUNBERRY.
About half natural size. For description and prices see cover page 3.
